# SPJ GLOBAL

**S P Jain**
**School of Global**
**Management**

DUBAI • MUMBAI • SINGAPORE • SYDNEY

BACHELOR OF
# DATA SCIENCE

YOUR PATHWAY TO

**FAST-GROWING CAREERS IN DATA SCIENCE AND ANALYTICS**

## ABOUT US

Welcome to S P Jain School of Global Management (S P Jain Global). We are an Australian business school with campuses in the vibrant business centres of Dubai, Singapore, Sydney, and Mumbai. Our global presence extends further through our sister institutions: S P Jain London School of Management in London and California Miramar University in Silicon Valley, USA, enhancing our international network and educational offerings.

Over the past decade, our programs have been recognised by some of the most respected international publications, including Forbes, Bloomberg Businessweek, Financial Times, The Economist, and Times Higher Education-Wall Street Journal.

We are known for our modern, innovative approach to education and razor-sharp focus on shaping leaders for the ever-evolving business landscape.

Our diverse program offerings include undergraduate, postgraduate, doctoral, and professional degrees.

To delve deeper into our story, scan:

## OVERVIEW

In today's age of rapid digitisation, data science has emerged as a driving force behind groundbreaking decisions, innovations, and advancements. Data analytics has redefined organisational operations and strategies, contributing to economic and social progress, competition, innovation, productivity, and consumer satisfaction.

S P Jain Global's Bachelor of Data Science (BDS) is a three-year full-time Australian degree designed to equip students with skills for this data-driven landscape. Open to Grade XII students with strong aptitude for mathematics and science, the curriculum integrates theory with practice. It covers data science, programming, analytics, and machine learning, ensuring students can translate data into actionable insights.

The program emphasises mathematical principles and industry-specific theories, offering hands-on experience through capstone projects and guidance from world-class faculty. This approach prepares students to navigate the complexities of this evolving field.

S P Jain Global is an industry leader, and the BDS program offered by the school is beyond great. We are taught by top globally renowned faculty who are experts in the field. The program is extremely well designed, and I am confident it will develop me into a quality data scientist.

**GAVRIEL OWENS VINCENTIO**
Data & Analytics Consultant,
Ingrity, Australia

## DEGREE QUICK FACTS

**Duration**
**3 YEARS**
CRICOS Code: 097290E

**Eligibility:**
**AUSTRALIAN YEAR 12 (OR OVERSEAS EQUIVALENT)**

**Location:**
**SYDNEY**

**ATAR (minimum):**
**70**

**Start months:**
**FEBRUARY AND SEPTEMBER 2025**

**Degree type:**
**AUSTRALIAN DEGREE ACCREDITED BY TEQSA**

## GLOBAL RECOGNITION BY DASCA

S P Jain Global is accredited by the Data Science Council of America (DASCA), along with leading institutions like Columbia, Cornell, Duke, Harvard, and Stanford. DASCA is one of the world's leading credentialing bodies for the data science profession. Our students now have the opportunity to earn a certification from DASCA and bolster their employability in the data science field.

## CAREERS IN DATA SCIENCE

The job market for data science professionals is promising in Australia. According to Seek, Australia's leading employment marketplace, the demand for data analysts is expected to grow by 27.7% over the next five years. This projection places data analysis among the nation's most promising employment markets, indicating excellent prospects for BDS graduates. As businesses across Australia increasingly recognise the value of data-driven decision-making, the need for skilled professionals who can extract insights from complex datasets continues to rise.

**Some of the diverse career paths available to BDS graduates include:**

1 Data Scientist
2 Machine Learning Engineer
3 Business Intelligence Analyst
4 Data Analyst
5 Data Engineer
6 Artificial Intelligence Specialist
7 Quantitative Analyst

These roles span various sectors, including technology, finance, healthcare, e-commerce, manufacturing, and beyond. The adaptability of data science skills allows graduates to contribute meaningfully to almost any industry that leverages data for decision-making and innovation.



**PRAKRUTI MAKWANA**

**Technology Associate, TPG Telecom, Australia**

## CURRICULUM HIGHLIGHTS

**20-30%** of the curriculum is devoted to establishing a solid theoretical foundation, ensuring you grasp the fundamental concepts and principles of data science.

A significant **70-80%** of the curriculum focuses on skill development and practical application, preparing you to implement theoretical knowledge in real-world contexts.

You will participate in hands-on, **REAL-WORLD PROJECTS** in collaboration with industry leaders, gaining a deeper understanding of the practical nuances of the field.

For a detailed look at our program structure and curriculum, scan:

- Introduction to web development (HTML5 CSS3)
- Reinforcement learning
- Raspberry Pi 3 based IoT
- AWS Sagemarker for DeepRacer Autonomous Vehicle
- Serverless application development (Microservices JSON RestAPI)

## LIVE PROJECTS AND GROUND-BREAKING RESEARCH

You also have the unique opportunity to work on real-world problems and gain experience in applying theoretical knowledge to practical scenarios.

**Examples of projects our students have undertaken in the past:**

- Amazon Alexa Conversational AI with PiCam
- PiCamRaspberry Pi3 IoT – Smart Mirror
- AWS DeepLens (AI Camera): Class Attendance Systems
- Intel Movidus NCS: Identifying a Consumer in a Retail Store with Gender/ Age
- Close Captioning of a YouTube Video Online
- AWS DeepRacer: Autonomous Electric Vehicle

Alongside these live projects, you are also encouraged to undertake academic research. Our students have successfully published their research findings in Elsevier and other renowned engineering and data science journals.

## SKILL BUILDING WORKSHOPS

The program includes an array of skill-building workshops that enhance your technical expertise. It also offers opportunities to gain certifications and experiences highly valued by employers.

**Examples of workshops our students attend:**

- SAS JMP (certification track)
- AWS and Azure Cloud (certification track)
- DevOps and MLOps
- Data engineering with Spark
- Software engineering

## REAL-WORLD EXPERIENCE THROUGH INTEGRATED INTERNSHIPS

The program integrates internships at every stage, allowing you to delve deeply into real-world challenges, apply your classroom knowledge, and grasp the intricacies of the industry. Furthermore, it offers an invaluable opportunity to network with professionals and industry leaders, laying the groundwork for your future career paths.

Most of our BDS students complete at least two internships before they graduate. In the past, BDS students at S P Jain Global have interned at:

- Adaptive Investments
- Amazon
- EdgeRed Analytics
- HERE Technologies
- Indian Institute of Management
- Indian Institute of Technology
- Indian Statistical Institute
- Instagram
- KPMG
- Macquarie Group
- NP Investment Research
- QM University of London
- TPG Telecom
- Uber
- UPilot
- Wolters Kluwer

There is a lot of demand for data scientists, but the supply isn't as much. So, of course, now is the right time to get into this market. The ROI is very, very high.

**VEDANT KABRA**
Associate Data & Insights Analyst, Macquarie Group, Australia

## CAREER REPORT 2023: KEY HIGHLIGHTS

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Average starting salaries

Employment rate

(including paid internships)

## TOP RECRUITERS

- TPG Telecom
- Woolworths Group
- Greenstone Financial Services
- Ingrity Pty Ltd
- Rassure Pty Ltd
- ResMed Pty Ltd
- Resonate Solutions
- RFI Technologies
- Scenter Group
- Stockland Corporation Ltd
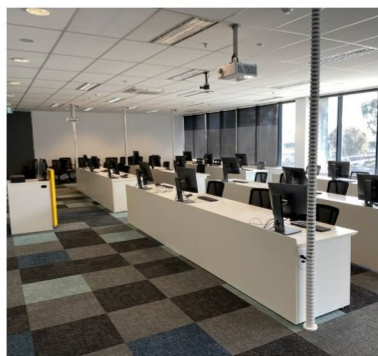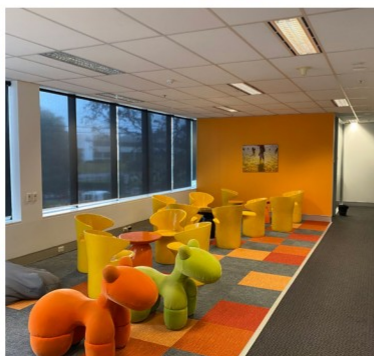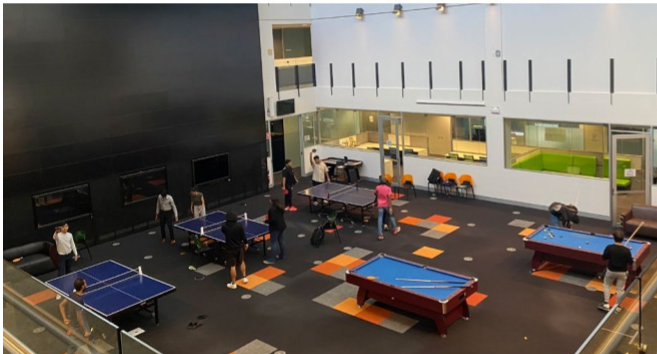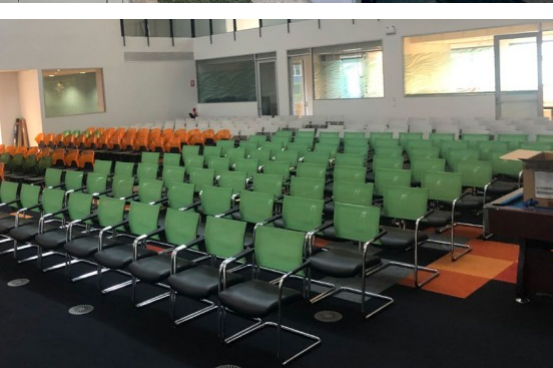- Neon Global Pacific Pty Ltd
- Xtreme Communications

# STUDY IN SYDNEY

Sydney, Australia's largest city and a global hub for innovation and technology, offers an ideal backdrop for studying data science. As a thriving metropolis with a diverse economy, Sydney provides students with unparalleled opportunities to apply their data science skills in real-world settings. The city's vibrant tech scene, world-class research institutions, and multicultural environment create a rich ecosystem for aspiring data scientists to learn, grow, and network.

The S P Jain Sydney campus is designed to enhance this learning experience. Located at 15 Carter Street in Lidcombe, our state-of-the-art facility spans 6,000 square metres over three floors. The campus is situated right next to the iconic Sydney Olympic Park, offering students access to world-class sporting facilities and green spaces. Our modern campus features cutting-edge technology and learning spaces, providing students with the tools they need to excel in their data science studies.

Easily accessible by public transport, the S P Jain Sydney campus is conveniently located near restaurants, shops, and malls. The campus boasts plenty of open spaces surrounded by lush greenery, offering excellent facilities for studying, relaxing, and socialising.

# APPLICATION PROCESS

## 1 MEET ELIGIBILITY CRITERIA

Completion of an Australian Year 12 (or overseas equivalent), including the International Baccalaureate (IB), with a minimum ATAR (or equivalent) of 70.

## 2 ONLINE APPLICATION

Complete the application form on the S P Jain Global website.

## 3 DOCUMENT SUBMISSION

Upload all necessary documents, including transcripts, English language scores, and more.

## 4 ENTRANCE TEST

Sit for the SPJET, SAT, or an equivalent examination and obtain the minimum cutoff score.

## 5 INTERVIEW

Shortlistedapplicants are required to undergo an interview and submit two essays.

## 6 ADMISSION OFFER

Successful applicants will receive an offer letter.
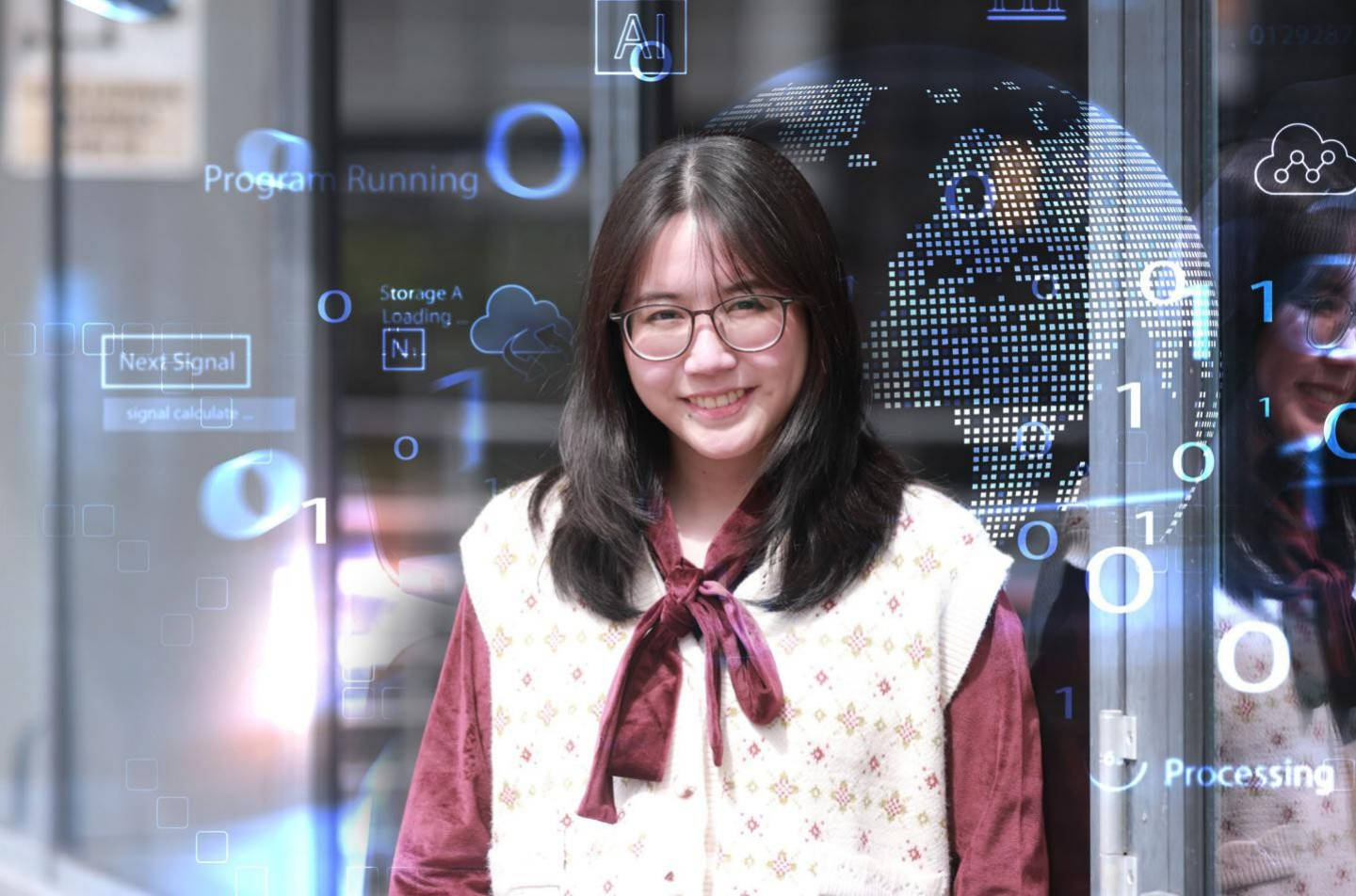
For a detailed look at our admission process, scan:

For more information on the fees and other charges, scan:

## FEE-HELP

If you are an Australian citizen, you may be eligible for FEE-HELP to help you pay your course fees.

For more information, scan:

## OUR GLOBAL CAMPUSES

### DUBAI

S P Jain School of Global Management
Block 5, Dubai International Academic City,
P. O. Box 502345, Dubai, UAE
www.spjain.ae

### MUMBAI

S P Jain School of Global
Management VIOS Tower, 5th Floor,
New Cuffe Parade, Mumbai 400 037
www.spjain.org

### SINGAPORE

S P Jain School of Global Management
10, Hyderabad Road, Off  Alexandra Road,
Singapore 119579
www.spjain.sg

### SYDNEY

S P Jain School of Global
Management 15 Carter Street, Sydney
Olympic Park NSW, 2141, Australia
www.spjain.edu.au

## OUR SISTER SCHOOLS

### LONDON

S P Jain London School of Management
2 Harbour Exchange Square
London E14 9GE
www.spjain.ac.uk

### CALIFORNIA

California Miramar University
505 S Market St,
San Jose, CA, 95113, USA
www.calmu.edu