RV UNIVERSITY
Go, change the world
an initiative of RV EDUCATIONAL INSTITUTIONS
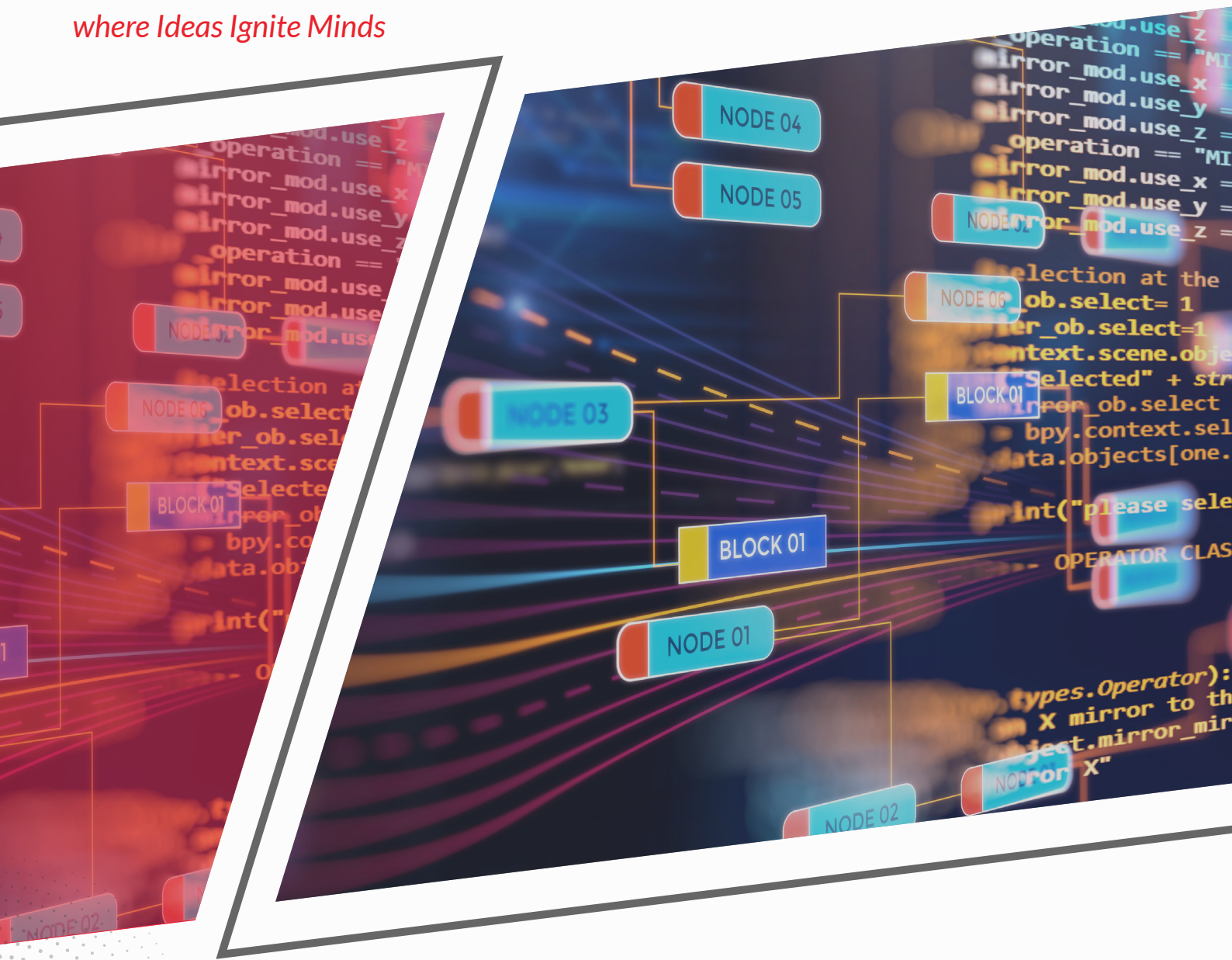
upGrad
Campus

School of Computer Science and Engineering (SoCSE)

where Ideas Ignite Minds

M.Tech. in Data Science

Awarded through a sequence of stackable microcredentials

Flexibility enabled through modular structuring of the program

A program to upskill and reskill experts in computer science, core engineering, healthcare, sports and other domains.

About **RV University**

RV University (RVU) is a new-age university for liberal education based in Bengaluru. It was established by the Rashtreeya Sikshana Samithi Trust (RSST), which has over eight decades of legacy of excellence in higher education. It is a State Private University under the RV University Act, 2019. It has received all regulatory approvals from the Government of Karnataka as well as university Grants Commission (UGC).

About the School of Computer Science and Engineering:

The School of Computer Science and Engineering (SoCSE) is a modern age school that focuses on the skills of problem-solving, critical thinking, innovation, creativity, communication, and entrepreneurship to deal with the world with exhibiting VUCA - Volatility, Uncertainty, Complexity, and Ambiguity. All programmes of the school enable students to be ready for global careers by working closely with all the concerned stakeholders - industries, government policymakers, researchers, think tanks and global organizations.

Why the School of computer Science and Engineering?

- Focus on imparting 21st century skills through experiential and holistic learning rather than exam-oriented, rote learning

- **Guide on the Side** model of pedagogy to build impressive portfolios

- **Learn and Earn** from 2nd semester onwards

- Advisory Board with eminent academicians, industry leaders and entrepreneurs to drive the vision of the school

- Curriculum supports interdisciplinary studies to enable domain expertise

- Curriculum includes industry internships during the final year

About upGrad Campus

upGrad Campus, a vertical of upGrad, operates with a mission to bridge the industry-academia gap in Higher Education Institutions across the country. We aim to improve students' employabilty by aligning the institutional curriculum with industry requirements, through our learning solutions.

The higher education ecosystem of today is undergoing major changes. Keeping up with the emerging revolution of Education 4.0 is our Joint-Degree Program which empowers Institutions and Universities and to launch full-time joint certification degrees with new-age specializations to their students to enrich program outcomes as well as boost placements.

6 New Age Specializations | **30+ Courses**

Program Advantages

Job-Ready and Industry-Relevant specializations

Mentorship with Industry Experts

100% Placement Assistance to Every Enrolled Student

Live- Case Studies and Capstone Projects

Guaranteed Internship opportunity in Pre-Final Year

Course **Curriculum**

Every course covers the required background mathematics and includes assignments, a project, graded questions and potential practice for placement interviews.

Modular Masters in Programming for Data

Python for Machine

Intro to Python
Control Structures, Functions and Recursion
Data Structures in Python
NumPy, Pandas, Matplotlib
Data Cleaning in Python & Intro to Kaggle

Statistics and Exploratory Data Analysis (EDA)

Data Sourcing, Cleaning and Analysis
Inferential Statistics
Hypothesis Testing

Machine Learning 2

Model Selection
Nonlinear data
Regularisation: Ridge, Lasso
Support Vector Machines and Kernels
Tree Models: Decision Trees, Ensembles, Random Forest
Hyperparameter tuning
Dimensionality Reduction
Recommender Systems

Modular Masters in Deep Learning

Deep Learning

Introduction to Neural Networks
TensorFlow, Keras
Computer Vision: Convolutional Neural Networks
Transfer Learning, Long Short-term Memory
Recurrent Neural Networks
Attention Mechanism
Generative Adversarial Networks

Modular Masters in Data Analysis

SQL & Visualisation

Database Design and Introduction to MySQL
Data Modelling
Advanced SQL and Best Practices
Data Visualisation in Python
Data Visualisation using Tableau

Modular Masters in Machine Learning

Machine Learning 1

Supervised Learning
Linear Regression
Classification: Logistic Regression, Naive Bayes
Unsupervised Learning
Clustering: K-Means, Hierarchical

Natural Language

Lexical Processing
Syntactic Processing
Semantic Processing
Text Summarisation and Classification
Web Scraping
Sequential Modelling
Transformers

Specialization Electives in

Artificial Intelligence/ Machine Learning
Networks, IoT and Cyber Security
Business Analytics
Computational Aerospace, Computational Mechanical
Computational Science and so on
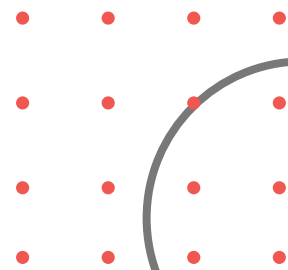
Admission Details

Eligibility

- A minimum of one year of work experience
- 4-year bachelor's degree/ MCA/ M.Sc./ B.Sc. (Research) in Core Engineering or allied subjects duly recognized by UGC.
- AIME or equivalent degree approved by statutory bodies

Selection

Based on final merit list which would consider

- A valid PG-CET/ GATE score (last two years) or marks obtained in RVSAT, conducted by RVU.
- Candidate's academic performance and work experience.
- Performance of the candidate in the personal interview.

RV UNIVERSITY
Go, change the world
an initiative of RV EDUCATIONAL INSTITUTIONS

upGrad
Campus

Industry **Faculty**

Birupakshya Mahapatra
Lenskart
Ex-ML Engineer

Shreyas M
Swiggy
Senior Manager - Analytics

Anshumaan Dash
Myelin Foundry
Senior Product Engineer -
AI and Deep Learning

Kshitij Jain
upGrad
Associate Vice President

Sumit Bhatia
Adobe
Senior Machine Learning
Research Scientist

RV
UNIVERSITY
Go, change the world
an initiative of RV EDUCATIONAL INSTITUTIONS

upGrad
Campus

Program **Highlights**

Curriculum aligned with

Exclusively designed curriculum by industry experts that meet and exceed industry requirements

360° Training Module

Designed by industry experts to help students build their resumes and portfolio, and prepare for interviews, group discussions, and aptitude training

Live Classes by Top Industry Experts

Students become experts by learning from industry experts

Exclusive Capstone Proj-

Knowledge and skills, applied to real world and research problems, guided by expert professors and professionals

Access to Exclusive Job Portal by

Students get access to an exclusive job portal of upGrad that comes with more than 350+ hiring partners.

Complete Assistance

Students are provided with 10+interview opportunities and comprehensive and structured placement guidance, feedback, and training, to ensure that every student is well-prepared for each step of the placement process.

Future **of Data Science**

Data science is the fastest-growing career option

According to a report by the U.S. Bureau of Labor Statistics, Data Science will create roughly 11.5 million job openings by 2028 globally.

Source: U.S. Bureau of Labor Statistics.

Data science will make or break future businesses

According to Forbes, 79% of global business executives agree that companies cannot survive without embracing data science and analytics

Source: Forbes.

Data science is needed virtually in every job sector

The World Economic Forum predicts that by 2028, Data Scientists and Analysts will become the number one emerging role in the world as data science experts are needed in virtually every job sector.

Source: World Economic Forum.

Recruiters

Microsoft

genpact

EY Building a better working world

Flipkart

cognizant

asianpaints

ORACLE

HDFC ASSET MANAGEMENT COMPANY LIMITED

Paytm

tcs TATA CONSULTANCY SERVICES

planetspark

TATA CAPITAL

make my trip

media.net

coditas

DWAO

Capgemini

MAGNIK INDIA

Walmart

REBEL FOODS

wipro

& many more...

Learner **Testimonials**

"

100% appreciation goes to team upGrad Campus. They helped me during the entire interview process. I am very happy to be part of upGrad Campus and the mentors at upGrad Campus are very supportive.

Lokeshwar Kumar,
Lovely Professional University, Placed in Nobrokerhood

"

upGrad Campus has been a major factor behind providing me with such a great opportunity and assisting me at every moment. I learned a lot from the mentors and teachers, and improved my skills and knowledge through their guidance.

Yuvraj Chaudhary,
Chitkara University, Placed in Planet Spark

"

I would like to thank upGrad Campus for offering great opportunities to upscale my skill sets, ace my placements and land my dream job. I strongly recommend upGrad Campus programs to anyone looking to grow and excel in their career!

Deepanshu Paliwal,
Lovely Professional University, Placed in upGrad Campus

RV UNIVERSITY
Go, change the world
an initiative of RV EDUCATIONAL INSTITUTIONS

upGrad Campus

BE FUTURE READY WITH UPGRAD CAMPUS

Contact us-

+91 8147754216, +91 9513673771

admissions@rvu.edu.in

RV Vidyanikethan Post 8th Mile , Mysuru Road, Bengaluru - 560 059

Scan Now