S ROSHAN KUMAR

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PROFILE SUMMARY

PhD-trained neuroscientist with 6+ years' experience in data analysis. Skilled in Python and advanced data visualization. Adept at communicating findings to diverse stakeholders and collaborating across international teams. Certified Power BI Data Analyst and Microsoft Business Analyst. Looking to use my analytical and technical skills to support business decisions and drive data-backed strategy.

WORK EXPERIENCE

PhD candidate   Oct 2017 – Oct 2024
Institute of Science and Technology Austria

- Led the design and implementation of a novel experimental system for gathering behavioural data
- Engineered a virtual reality system to study visually guided behaviour in freely walking fruit flies, enabling high resolution, reproducible experimentation
- Developed a Python-based data pipeline for cleaning, analysing, and modelling complex behavioural datasets
- Delivered a user-friendly software interface to enable non-expert team members to run experiments independently
- Co-first author on: Pokusaeva, V.O., **Satapathy, R.**, *et al. Nat Commun* 15, 8830 (2024)

INTERNSHIPS

Summer Research Intern   Apr 2016 – Jun 2016
Max Planck Institute of Heart and Lung Research, Germany

- Used CRISPR gene editing to create zebrafish models and investigate mechanisms of cell polarity in pancreatic cells.

Summer Research Intern   Apr 2015 – Jun 2015
Peking University, Shenzhen, China

- Enhanced production of bacterial laccase in cyanobacteria by optimizing gene expression workflows, including cloning and microbial cultivation.

OTHER ACHIEVEMENTS

Member of the Formula Student team of IIT Kharagpur

- Led the design and manufacturing of the braking system of a formula-prototype car for an international automotive engineering competition

Founding member of iGEM team of IIT Kharagpur

- Presented proof-of-concept of a biosensor bacteria for indicating spoilage detection at an international competition

EDUCATION

PhD in Neuroscience
2017 - 2024
Institute of Science and Technology Austria

B.Tech and M.Tech in Biotechnology
2012 - 2017
Indian Institute of Technology Kharagpur, India

CERTIFICATIONS

Microsoft Certified: Power BI Data Analyst Associate

Microsoft Business Analyst by Microsoft on Coursera

Business Analytics Specialization by University of Pennsylvania on Coursera

PROFESSIONAL SKILLS

Data analysis & visualization

Python (Expert)
PowerPoint (Expert)
SQL (Intermediate)
Git (Intermediate)
Power BI (Intermediate)
Excel (Intermediate)
Business Analytics (Beginner)

Analytical & Research

Experimental Design
Hypothesis Testing
Scientific Writing
Literature Review
Prototyping and Instrumentation

Communication & collaboration

Project management
Stakeholder Presentation
Cross – cultural collaboration
Mentorship
SDLC (Agile, Scrum)