

Rishabh Pandey

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EDUCATION

Indian Institute of Technology, Kanpur 2021-2025
B.Tech, Materials Science and Engineering

PROFESSIONAL EXPERIENCE

PRISM (Formerly OYO) Jun'25-Present
Data Analyst

- Engineered **10+** real-time dashboards tracking key metrics like **revenue, daily bookings, daily supply, inventory** using **Python** and **SQL(Hive)**, enabling data-driven business decisions
- Built an OTA Live status reporting system using **Python, BigQuery**, and **REST-based** listing validation, eliminating the **48-hour** data lag and driving **8%** uplift in weekly URN.
- Automated data flow via **CRON-based** scheduling on server environment, improving data accuracy on daily basis
- Implemented a **RAG-based GenAI** model to intelligently classify and summarize OTA guest reviews, enabling automated categorization of **1000+ OTA reviews** into actionable themes. Improved efficiency by **65%** and reduced manual review effort by 15+ hours/week
- Created a **GenAI** agent using **LangChain** and **OpenAI API** to generate **10,000+** optimized property titles and descriptions, increasing click-through rate by **37%**
- Developed a Python based **ETL** pipeline using **Astro DAG** workflows to process and load daily OTA reports into **PostgreSQL**, enhancing reporting accuracy and decision-making

Helmerich and Payne May'24-Nov'24
Advance Analytics Intern

- Developed full-stack analytical dashboard using **D3.js, PrestoSQL**, and **Django** for crude oil manufacturing analysis
- Created **10+** interactive data visualizations including Bar charts and 3D-Sunburst charts using D3.js and **PrestoSQL** for advanced data interpretation
- Enhanced data plots by adding **10+** advanced functionalities such as zooming, panning, legends, improving data visualization
- Integrated REST API data by **parsing** and **transforming** response payloads into structured datasets, enabling seamless data flow across systems
- Secured an Extended Internship and a Pre-Placement Offer based on strong performance

TECHNICAL SKILLS

Programming Languages: Python, SQL, C++, C, JavaScript
Data Technologies: PrestoSQL, Hive, BigQuery, PostgreSQL, Metabase, REST APIs

Data Engineering & Workflow Tools: Apache Airflow, Astro, DAG Workflows

Data Analysis: MS Excel (Advanced), D3.js, Matplotlib, NumPy, Pandas, Scikit-learn

Utilities: Git, GitHub, Bash, LaTeX

Familiar With: Firebase, Docker, Django, Power BI, Google Sheets, Jupyter Notebook

KEY PROJECTS

Synthetic Data Generation using GAN Model Jan'24-Apr'24
Prof. Shikhar Misra, Dept. of MSE, IIT Kanpur

- Developed **TS-DCGAN deep learning** model to generate synthetic data for Lithium-Ion Battery analysis, addressing data scarcity challenges
- Transformed real time series data into FFT images, applied Gaussian noise augmentation, and generated **50+** samples images
- Applied TS-DCGAN for generating high-quality images from these existing images using the **zero-sum approach**
- Implemented the **Inverse-FFT** to DCGAN-generated images to accurately construct the synthetic dataset
- Validated synthetic data with **Kolmogorov-Smirnov, Hypothesis Testing, T-test** and **Chi-square test**, ensuring the pattern fidelity
- Generated **25%+** synthetic data that replicates key statistical properties like mean, standard deviation

SQL to Natural Language Aug'23-Nov'23
Prof. Sruti Srinivasa Raghwan, Dept. of CSE, IIT Kanpur

- Extracted and processed **SQL outputs** from 5+ government data sources and convert them to natural language summaries
- Developed **parameterized SQL queries and aggregations** to summarize large government datasets
- Utilized Python's NLP libraries NLTK and SpaCy to convert SQL output into human-readable summaries
- Optimized SQL workflows to reduce query-to-report latency by **60%**, improving data interpretability and reporting efficiency.

POSITIONS OF RESPONSIBILITY

Overall Coordinator Apr '24-Apr'25
Outreach Cell, IIT Kanpur

- Led a 3-tier team of **60+** members and managed a **35+** lakh annual budget, aimed to foster Student Alumni engagement
- Launched the **first-ever** Monsoon Milan event with the IITK Alumni Association (Bangalore Chapter), bringing together **100+** alumni and **150+** interns and recent graduates.
- Expanded the Open House initiative by **50%**, scaling to **45+** coaching institutes across **20+** cities, mentoring **900+** students on academic and career pathways at IIT Kanpur.
- Led the execution of **400+** mock interviews with **170+** alumni, achieving a **35%** scale-up in the Mock-en-Joy program to support the Internship Drive '24.
- Organized **40+** talks, **10+** reunions in partnership with DoRA and Development Foundation, IIT Kanpur

Mess Secretary Aug '24-May '25
Hall of Residence I, IIT Kanpur

- Administrated a team of **50+** workers while managing and optimizing mess operations with a monthly turnover of **20** lakhs
- Oversaw the monthly budget of **3+ lakhs** for procurement, vendor management, and essential services.
- Upgraded cold-storage infrastructure by installing **5+** new machines using a **25 lakh** maintenance fund, improving operational efficiency.