

Amit Kumar Pandey

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EXPERIENCE

Research Associate, IIT Madras

July 2024 – Sep 2024

- Worked on the research project “*Demystifying Start-Up Valuation*” under Prof. Krishna Prasanna.
- Collected, cleaned, and structured large-scale startup data from Tracxn datasets.
- Validated data accuracy and consistency across multiple sources.
- Maintained well-documented Excel and Google Sheets for analysis and reporting.
- Supported research analysis by preparing datasets for modeling and interpretation.

Key Tools: MS Excel, Google Sheets, Python, Pandas

Research Intern, IIT Mandi

Dec 2024 – Feb 2025

- Analyzed **NASA** satellite rainfall datasets to study precipitation patterns in the Himalayan region.
- Performed data cleaning, transformation, and exploratory analysis using Python.
- Extracted insights on rainfall variability and trends for academic reporting.
- Supported **startup ProbeStem** with data-backed content and outreach materials.
- Created structured documentation and visual summaries for stakeholders.

Key Tools: Python, Pandas, NumPy, Matplotlib, Excel

EDUCATION

BS in Data Science and Applications, IIT Madras

May 2022 - Dec 2026

- CGPA: 7.6
- **Coursework:** Python, Machine Learning Foundation(MLF), Machine Learning Techniques(MLT), Machine Learning Practice(MLP), Deep Learning(DL), Modern Application Development, Python Programming, Database Management System(DBMS), Data Structure & Algorithms, Linux, Java, Business Data Management, Business Analytics, Mathematics for Data Science

BSc(Statistics), Patna University

May 2019 – May 2022

- Score: 70%

PROJECTS

Quiz Master – Exam Management Platform

- Built a **multi-user** quiz and exam preparation platform with structured database design, user data management, and **role-based access**.
- Implemented frontend(**VueJs**) and backend logic for quiz creation, attempt tracking, result computation, and data integrity using **Flask** and **PostgreSQL**.

Cinema Audience Forecasting (Time Series Analysis)

- Developed a time-series forecasting pipeline to predict daily cinema audience counts across multiple theatre locations.
- Integrated multi-source datasets (BookNow, CinePOS, calendar data), performed feature engineering, and generated **demand forecasts**.

Power BI Road Accident Analysis

- Cleaned and transformed 300,000+ UK road accident records using **Python** for data preprocessing and feature preparation.
- Built interactive **Power BI** dashboards using **DAX** to analyze accident severity, temporal trends, and environmental factors for data-driven insights.

TECHNICAL SKILLS

Programming & Querying: Python, SQL, R, Java

Data & Analytics: Pandas, NumPy, Matplotlib, scikit-learn, Power BI

Tools & Platforms: MS Excel, Google Workspace, VS Code, PostgreSQL, Docker, AWS (Foundations)

Web & Apps: HTML, CSS, JavaScript, Flask, FastAPI, Jinja, Vue.js

Design & Documentation: Canva, Lightroom, Photoshop, Microsoft Word

CERTIFICATIONS & ADDITIONAL ACHIEVEMENTS

- **AWS** Academy Graduate – **Cloud** Foundations
- AWS Educate Machine Learning Foundations Badge
- **HackerRank** Python (4★), SQL (3★)
- SQL Basic Certification – HackerRank
- Core **Event Organizer** – Paradox'23, IIT Madras
- Social Worker – Strayniya Welfare Association (2023–Present)
- **Skating Coach** – Innerfires Skating Academy (2019–2020)

Available for immediate joining | Open to contract-based full-time roles