

SAKSHI GUSAIN

Looking for an internship or full-time opportunity in data science, available from April 15, 2025.

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PROFESSIONAL EXPERIENCE

National Australia Bank | Gurugram, India

March 2023 - July 2024

Advisor Engineer-I

- Operated within the **Marketing Data Science** team based in Australia
- Conducted **data analysis** and 21 metric builds for **home loan retention campaigns**
- Managed critical monthly processes, including **feature store updates and model scoring**, contributing approximately 33 million in annual incremental value
- Developed a **testing framework** for the feature store to identify data quality issues, preventing disruptions to 24 ML models and eliminating the need for costly reprocessing of historical data, ensuring robust pipeline operations
- Played a key role in the **deployment** of 3 new machine learning models, ensuring a smooth integration into the existing infrastructure

Amazon | Bangalore, India

January 2022 - June 2022

Software Development Engineer Intern

- Collaborated with the **Cards and NetBanking team** under IN Payments department
- TPR Salvage Flow for NB: Built an end-to-end service to improve third-party responses, increasing Net Banking **success rates by 6-7% across India** and saving 700-900 daily transactions from failing due to pending charge issues
- Acquired hands-on experience leveraging pivotal AWS resources, including **Step Function, Lambda, CloudWatch, and API Gateway**, enhancing proficiency in cloud-based solutions
- Achieved 100% line coverage in unit testing, demonstrating software quality through JUnit and Mockito

SKILLS

- Programming:** Python (Pandas, NumPy, Matplotlib, PySpark, Pytest, Scikit-learn), SQL, Java
- Tools & Technologies:** Git/GitHub, Amazon Web Services (AWS), Databricks, Power BI, Jupyter, VS Code
- Concepts:** Data Structures and Algorithms, OOPs, Data Visualization, ETL, DBMS, Machine Learning, Statistics, Financial Analysis, Data Analysis, Testing Framework (Pytest)
- Soft Skills:** Analytical & Critical Thinking, Collaboration, Problem-Solving, Continuous Learning, Teamwork, Detail-Oriented, Adaptability, Strong Work Ethic

EDUCATION

Audencia Business School | Paris, France

September 2024 – Present

Masters of Science in Data Management for Corporate Finance

- Built a machine learning model to detect **fraudulent credit card transactions** using SMOTE and SMOTEENN for data imbalance correction. Improved recall from 61% to 88% while maintaining a precision of 77%. Performed **hyperparameter tuning** using Random Search techniques to optimize model performance, focusing on precision and recall for imbalanced datasets by fine-tuning parameters to improve precision by 14%.
- Gained hands-on experience with Alteryx for data analysis and dashboards. Delivered solutions for real-world problem statements presented by Mazar. Created **Power BI reports** with 2 dashboards synthesizing financial sales data for KPMG to drive insights and decision-making.
- Gained fundamental knowledge of statistical model and econometrics such as OLS, Multilinear Regression, Hypothesis Testing, and GARCH modelling for financial forecasting

ABES Engineering College | Ghaziabad, India

August 2018 – July 2022

Bachelor of Technology in Electronics and Communication Engineering

- Key Courses:** Programming for Problem Solving, Python Programming, DBMS, Operating Systems, SQL, Digital System Design, Optical Communication, Wireless and Mobile Communication, Computer System Security.
- Joint Secretary of Picturesque** (The photography and Cinematography Club of ABES-EC)

AWARDS AND HONORS

- NAB Value Award (Excellence for Customers)** | In recognition of outstanding performance August 2023
- NAB Star Performer Award** | In recognition of outstanding performance July 2023

LANGUAGES

- English (Fluent)
- Hindi (Native)