MRIDUL KHANNA

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CAREER SUMMARY

Master's in Computer Science (specializing in Data Science & AI) at the University of Sydney with 2 years' experience as a Software Engineer at Bank of America. Skilled in Python, SQL, Data Analysis, and Machine Learning, with a proven record of delivering scalable systems and analytics solutions that drive measurable business impact.

TECHNICAL CAPABILITIES

Programming & Frameworks: Python, SQL, R, Java, Spring Boot, REST APIs, Git, JUnit, Postman, OpenAPI/Swagger, JSON, XML, OpenCV
Data Science & Analytics: Statistics, data wrangling, machine learning, pandas, NumPy, scikit-learn, Matplotlib, Seaborn, Power BI, Tableau, Excel, Google Analytics
Cloud & Systems: BigQuery, AWS, MySQL, Oracle, Jenkins, Bitbucket Pipelines, MuleSoft

EXPERIENCE

BANK OF AMERICA - *Software Engineer* — Gujarat, India
June 2022–June 2024

- Engineered critical modules of Bank of America's Net Banking platform, powering secure document exchange, e-signatures, and backend operations supporting **~39 million** daily users.
- Developed scalable REST APIs (**Spring Boot),** restructured **SQL pipelines**, and raised unit test coverage by **~40% (Junit)**, improving reliability and accelerating deployment cycles.
- Supported debugging and testing **(MuleSoft)**, ensuring data flow accuracy and reducing release issues.
- Awarded **5 Bronze Awards** for high impact project delivery and entrusted with directing a **$2,000** CSR grant to NGOs as one of the top contributors in 2023, demonstrating social responsibility and leadership.

VAH VAH INSTITUTE PVT. LTD - *Business Analyst Intern* — Bengaluru, India
Nov 2021–May 2022

- Identified and eliminated revenue-impacting inefficiencies in marketing and sales and boosting conversion by **30%** through actionable insights and optimized lead targeting (**Google Analytics** and **Data Studio)**.
- Collaborated with stakeholders to build automated reports and dashboards (**Python**, **BigQuery**, **Data Studio**)., reducing manual effort by **50%** and accelerating data-driven decision making.

CODING NINJAS - *Data Science & Machine Learning Teaching Assistant* — New Delhi, India
Feb 2021– Apr 2021

- Mentored students on **700+** queries related to Machine Learning concepts and real-world project roadblocks, earning an overall performance rating of **4.9/5** from students

AUSTRALIAN EXPERIENCE

OTR - *Customer Service Representative* — Sydney, Australia
Nov 2024–Present

- Operated POS systems and managed 50+ transactions/hour, ensuring **accuracy, efficiency, and smooth operations** in a high-volume environment.

TECHNICAL PROJECTS

- **Credit Risk Modeling with ML (XGBoost, Decision Trees, Random Forest):** Developed a credit risk classification model using financial indicators across occupations. Achieved **97.7% accuracy**, **0.998 AUC-ROC**, and **94.7% F1-score**, enabling risk profiling for financial institutions.
- **AdSnap – LLM-Powered Ad Banner Generator (GPT-3.5, OpenCV):** Built a modular AI-powered pipeline that transforms product images and tones into production-ready ad banners using slogan generation, dynamic font placement, contrast-aware text rendering, and CTA integration.
- **Premature Mortality Risk Analysis for US Counties (Multiple Linear Regression, Decision Trees):** Performed exploratory data analysis on public health data of **3,000+ US counties** to identify socioeconomic, healthcare access and behavioral predictors of premature mortality. Built interpretable models to evaluate predictor impact. Insights from the models guided data-driven health policy and resource allocation.

EDUCATION

UNIVERSITY OF SYDNEY — Sydney, Australia
Master's in Computer Science (Specialization in Data Science & Artificial Intelligence) — *June 2024 – June 2026*

VELLORE INSTITUTE OF TECHNOLOGY — Vellore, India
Bachelor of Technology in Computer Science and Engineering; (CGPA : 8.83/10) — *July 2018- July 2022*

PUBLICATION

Khanna, M. (2023). *Exploring the IoT Data Analytics Landscape: An Extensive Study. International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, **11**(9). https://doi.org/10.22214/ijraset.2023.55912