MRIDUL KHANNA

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EDUCATION

UNIVERSITY OF SYDNEY	Sydney, Australia
MASTERS IN COMPUTER SCIENCE (SPECIALIZATION IN DATA SCIENCE & ARTIFICIAL INTELLIGENCE)	*June 2024 – June 2026*

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

EXPERIENCE

BANK OF AMERICA	Gujarat, India
Software Engineer	*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	Bengaluru, India
Business Analyst Intern	*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	New Delhi, India
Data Science & Machine Learning Teaching Assistant	(Remote)
	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	Sydney, Australia
Customer Service Representative	*Nov 2024–Present*

- Delivering high volume POS service to 50+ customers per hour, enhancing efficiency and customer satisfaction in a fast-paced environment.

AUSTRALIAN RED CROSS	Sydney, Australia
Volunteer	*July 2025–Present*

- Dedicated to improving the quality of life for socially isolated older adults through community visits and digital interaction.

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.

TECHNICAL CAPABILITIES

Programming & Frameworks: Python, SQL, Java, R, Spring Boot, REST APIs, JUnit, Git, Postman, Swagger/OpenAPI, JSON, XML, OpenCV
Data Science & Analytics: scikit-learn, Pandas, NumPy, Seaborn, Matplotlib, Tableau, Power BI, Google BigQuery, Google Data Studio, Excel, Google Analytics
Cloud & Systems: Google Cloud Platform (GCP), AWS, MuleSoft, MySQL, Oracle DB, GitHub Actions, Jenkins, Bitbucket Pipelines

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