NIKHIL ADVANI

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SUMMARY

Results-driven Data Scientist with 1 year of experience in machine learning and data analytics. Proficient in Python, R, SQL, Power BI, Pandas and Scikit-learn. Currently pursuing a master's in Data Science from the University at Buffalo, with expected graduation in December 2024. Actively seeking full-time opportunities to leverage my skills and contribute to impactful projects.

EDUCATION

Master of Professional Studies: Data Science and Applications   **Aug 2023 - Expected Dec 2024**

University at Buffalo, The State University of New York | Buffalo, NY, USA   **CGPA: 3.8**

Relevant Courses: Statistical Data Mining, Machine Learning, Database Management Systems, Python Programming

SKILLS & TOOLS

- **Programming Languages**: Python, R, SQL, DAX
- **Tools**: Microsoft (Power BI, Office, Excel, Word, PowerPoint), Tableau, AWS (S3, Redshift, Glue, DMS), MongoDB, Oracle, Groq, Streamlit
- **Data Science & Analytics**: Python (Pandas, NumPy, Matplotlib, SciPy, Scikit-learn), ETL, Data Science Pipeline (cleansing, wrangling, visualization, modeling, interpretation), Statistics, LLM
- **Machine Learning**: Regression, Classification, Clustering

EXPERIENCE

Data Scientist/Analyst - EPL Limited   **May 2022 - Apr 2023**

- Developed a **logistic regression model**, leading to a boost in monthly customer retention by **14 basis points** by offering relevant product features to at-risk clients
- Implemented time series forecasting models using **ARIMA & SARIMAX** for sales forecasting, enabling targeted marketing and boosting sales efforts by **22%**
- Designed **Power BI** dashboards to identify areas of improvement for sales and marketing teams, presented analysis to stakeholders, leading to an YoY **revenue gain of $500k**
- Monitored data pipelines with AWS Redshift, S3, Glue, DMS for real-time integration, reducing data access delays by 32%
- Mentored a team of 3 interns, guiding them through building **sophisticated reports** and end-to-end projects

Software Development Intern - Numeric Infosystem Pvt. Ltd.   **Aug 2021 - Nov 2021**

- Created an Inventory Management website integrating **Django, python, SQL, javascript**, utilized by 5 companies, streamlining operations and enhancing efficiency by **20%**
- Leveraged Python, SQL and Excel to clean and prepare client data, enabling data scientists to build predictive models that **lifted ROI by 12 basis points**
- Utilized **MySQL** and formulated complex SQL queries to retrieve and manipulate employee data within the database

RESEARCH EXPERIENCE

Volunteer Research Assistant – X-Lab@UB | NY, USA   **Jun 2024 – Jul 2024**

- Initiated a role-based access control system within a **RAG** application using streamlit, enhancing security and privacy for over **100** pathologists and **500** clients
- Incorporated **1000**+ research papers & numerous documents, providing comprehensive resources for pathologists & clients
- Employed Langchain tools and agents to streamline access control mechanisms, reducing document retrieval time by **40%**

ACADEMIC PROJECTS

News Research Chatbot: Python, LLM, OpenAI, Generative AI (Link)   **May 2024**

- Built an LLM powered research chatbot using **Langchain**, **OpenAI**, **FAISS** and **Streamlit** reducing research time by 60%
- Established a data processing pipeline that loads and splits articles, achieving efficient chunking of data
- Integrated **OpenAI embeddings** and **FAISS indexing**, enabling storage and retrieval of relevant content, leading to a **30%** reduction in API call costs

Real Estate Price Prediction: Python, ML (Link)   **Feb 2024**

- Engineered models for predicting house prices through data analysis and **feature engineering**
- Applied preprocessing, including outlier removal and one-hot encoding, reducing data size by **27%**
- Predicted property prices using **Linear Regression**, **Decision Tree**, **Lasso,** and **Random Forest**
- Utilized **Grid Search CV** to determine optimal model and achieved **81.9%** accuracy

Car Sales Dashboard: Tableau (Link)   **Jan 2024**

- Constructed and implemented **KPIs** for a concise overview of car sales performance
- Reviewed business requirements, translated them into actionable insights for a customized dashboard
- Displayed dynamic charts with interactive features for stakeholder insight into complex sales data