NIKSHITA RANGANATHAN

TX, US (Ready to relocate) (408)-620-2163 Email LinkedIn Portfolio GitHub

EDUCATION

Northeastern University, San Jose, CA — Sep 2022 – Jul 2024
Masters in Data Science — **GPA: 4.0/4.0**

Birla Institute of Technology & Science, Dubai, UAE — Aug 2015 – Aug 2019
Bachelor of Engineering (Hons), Electrical & Electronics Engineering

SKILLS

Programming Languages	Python, SQL, R, MySQL, PostgreSQL, Oracle, PySpark
Frameworks & Libraries	NumPy, Pandas, Scikit-Learn, Matplotlib, Plotly, NLTK, PyTorch, TensorFlow, LangChain, SpaCy, Seaborn
Data & Analytical skills	Data Mining, Machine Learning, Data Modeling, Project Management, ETL
BI & Reporting Tools	Tableau, Power BI, MS Office, SharePoint, CRM
Cloud Tools & Platforms	GIT, JIRA, Azure, Snowflake
Certifications	Tableau Desktop Specialist Certification, CompTIA Data+, SQL Bootcamp (Udemy)

EXPERIENCE

McDermott International, TX — Oct 2024 – Present
McDermott International, Dubai, UAE — Sep 2019 – Sep 2022
Data Analyst

- Designed and implemented advanced **Tableau** dashboards and reports using **time series forecasting** to minimize project delays and streamline workflows, leading to an **8%** improvement in project productivity.
- Optimized complex **SQL** queries for faster data retrieval and constructed a robust database management system for **12** offshore Oil and Gas projects, reducing query processing time by **16%** and increasing operational efficiency.
- Achieved a **12%** cost reduction by utilizing analytical and problem-solving skills to identify and evaluate key performance indicators (KPIs), performing root cause analysis, and implementing effective mitigation strategies.

Electric Power Research Institute, Charlotte, NC — Oct 2023 – Jan 2024
Applied Data Science Intern

- Enhanced forecast accuracy by **11%** through **time series analysis** and **predictive modeling** of insulator leakage currents across **9** locations, integrating weather data using **Python** and **R** to support effective strategic decisions.
- Developed real-time **Tableau** dashboards to monitor current trends and weather impacts, with an automated data pipeline driving faster data updates reducing analysis time by **17%**, improving **data driven decision making**.
- Delivered in-depth data analysis with attention to detail, translating complex findings into clear and actionable business insights, boosting customer satisfaction by **20%** through comprehensive **data storytelling**.

SiriusMindshare, San Jose, CA — Jul 2023 – Oct 2023
Data Science Intern

- Engineered a Multi-PDF Q&A System using **LangChain** and **LLMs**, analyzing **100+** PDF documents to achieve **85%** accuracy in data extraction, significantly improving data processing efficiency.
- Created an interactive chatbot leveraging **NLP (Natural language processing)** techniques in **Python**, generating accurate responses to queries based on email samples, resulting in a **14%** increase in user engagement.

PROJECTS

- **Amazon Web Scraping –** Built an automated data extraction tool using Selenium successfully scraping detailed information for **15+** products from Amazon's web pages, saving over **5** hours of manual effort. {link}
- **Predictive Model - Uber vs Lyft -** Generated a multivariate linear regression model, performed Hypothesis testing to predict competitive pricing with **95%** accuracy of Uber and Lyft rides dataset (**600,000+** records). {link}
- **Bank Customer Churn –** Employed data models for customer churn analysis on a dataset of **10,000+** entries using statistical analysis, ML algorithms and regularization to optimize accuracy and address overfitting. {link}
- **Twitter Sentiment Analysis** - Performed sentiment analysis of tweets for **6** US airlines using ML models, providing insights to enhance customer service strategies **(Decision trees, Random Forest, SVM, KNN).** {link}
- **US Accident Analysis** - Analyzed a dataset of **7.7M** US accident records to identify key accident factors and formulated a predictive model with **84.09%** accuracy for road safety strategy enhancement. {link}

LEADERSHIP

Dean's Student Ambassador – Northeastern University — Dec 2023 – June 2024
Student Ambassador - Northeastern University — Apr 2023 – Dec 2023