NIKSHITA RANGANATHAN

🏠 CA, US (Ready to relocate) 📞 (408)-620-2163 ✉️ ranganathan.n@northeastern.edu in LinkedIn ⬡ GitHub

EDUCATION

Northeastern University, San Jose, CA   Sep 2022 – Jul 2024
Masters in Data Analytics   **GPA: 4.0/4.0**
Coursework: Probability & Statistics, Data Management, Data Mining, ETL with Big data, Data Warehouses, Qualitative & Quantitative Analysis, Data Visualizations, Machine learning, A/B Testing, Project Management

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

SKILLS

BI & Reporting Tools	MS Office, Excel (VLookup, Power Query, Pivot tables), Tableau, Power BI, Sharepoint
Languages & Databases	SQL, Python (NumPy, Pandas, Scikit-learn, Matplotlib, Plotly, NLTK), R, MySQL, PostgreSQL, Oracle
Cloud Tools & Platforms	GIT, JIRA, Azure
Certifications	Comptia Data+, SQL Bootcamp (Udemy), Data Analysis - R programming (Google)

EXPERIENCE

Electric Power Research Institute, Charlotte, NC   Oct 2023 – Jan 2024
Applied Data Scientist Intern
- Enhanced risk prediction and maintenance strategies by **20%** through **time series analysis** and **predictive modeling** of insulator leakage currents across **9** locations, integrating weather data using **Python** and **R**.
- Developed real-time **Tableau** dashboards to monitor leakage current trends and weather impacts, improving **data driven decision making** by **15%** and directly influencing strategic business decisions.
- Delivered in-depth data analysis with attention to detail to translate complex findings into clear and actionable insights, enhancing customer satisfaction through comprehensive **data storytelling**.

SiriusMindshare, San Jose, CA   Jul 2023 – Oct 2023
Data Science Intern
- Developed 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 **50** email samples, resulting in a **25%** increase in user engagement.

McDermott International Inc, 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 a **23%** improvement in project efficiency.
- Optimized advanced **SQL** queries for faster data retrieval and established a robust DBMS for **12** agile offshore Oil and Gas projects, increasing stakeholder engagement by **14%**.
- Achieved a **15%** 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.

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 -** Designed 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 modeling 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 developed 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