NIKSHITA RANGANATHAN

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EDUCATION

Northeastern University, San Jose, CA   Expected Graduation: Jun 2024
Masters in Analytics   **GPA: 4.0/4.0**
Coursework: Probability & Statistics, DBMS, Data Mining Applications, ETL with Big data, Data Warehousing, Data Science, Quantitative & Qualitative Analysis, Artificial Intelligence, Machine learning, Inferential statistics

Birla Institute of Technology & Science, Dubai, UAE   Aug 2019
Bachelor of Engineering (Hons), Electrical & Electronics Engineering   **GPA: 3.4/4.0**

SKILLS

BI & Reporting Tools	Tableau, Microsoft Power BI
Scripting Languages	Python (Pandas, NumPy, Matplotlib, Nltk, Plotly, Scikit-learn), R, SQL, R Shiny
Other software tools	Oracle, Microsoft Office Suite (Word, Microsoft Excel, PowerPoint), MS Azure
Certifications	SQL Bootcamp (Udemy), Data Analysis with R programming (Google)
Soft skills	Attention to detail, Strong desire to learn, Excellent written & verbal communication skills, Positive, Enthusiastic, Storytelling

EXPERIENCE

EPRI, Charlotte, NC   Oct 2023 – Jan 2024
Applied Data Science Analysis Intern
- Conducted time series analysis and predictive modeling to forecast insulator leakage currents across **9** locations, integrating weather data to forecast future risks and optimize maintenance strategies.
- Documented data models and processes, enhancing accessibility and data-driven decision-making across teams.

SiriusMindshare, San Jose, CA   Jul 2023 – Oct 2023
Data Science Intern
- Developed a Multi-PDF Q&A System with Langchain, and LLMs by analyzing **100+** PDF documents for efficient data extraction achieving **85%** accuracy.
- Created an interactive chatbot leveraging Natural Language Processing (NLP) techniques to generate responses for queries based on **50** email samples enhancing user engagement.

McDermott International Inc, Dubai, UAE   Sep 2019 – Sep 2022
Associate Project controls Analyst, Project Controls, and Risk Management
- Utilized analytical and problem solving skills to identify and evaluate key performance indicators (KPIs) and project deliverables by conducting the root cause analysis resulting in a **15%** cost reduction.
- Effectively collaborated with cross-functional multicultural teams to create dashboards and reports of performance metrics using Tableau time series forecasting, leading to a **23%** improvement in project efficiency.
- Established and managed a Database Management System for **12** agile offshore projects for Oil & Gas Giants - Saudi Aramco & Qatar Gas, integrating all project data for efficient project management and process improvement.
- Reviewed monthly reports, with all relevant details which aided in developing data-driven solutions, delivering projects on schedule and within budget, and improving profit growth by **7%**.

PROJECTS

- Conducted R-programming-based exploratory data analysis (EDA) of Netflix dataset from Kaggle to provide key business insights and recommendations for increase in views by **40% (Data visualization & manipulation)**
- 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) (**Predictive Analytics, Regression Analysis)**
- Generation of ML models for customer churn analysis on a dataset of over **10,000** entries using statistical analysis, ML algorithms, and regularization to optimize accuracy and address overfitting **(Data Modeling)**
- Performed sentiment analysis of tweets for **6** US airlines using Machine learning models **(Decision trees, Random forest, Support Vector Machine, KNN)**
- Applied Natural Language Processing **(NLP)** techniques for a detailed thematic analysis of song lyrics, securing runner-up in a Python Hackathon across Northeastern campuses.

LEADERSHIP

Dean's Student Ambassador – Northeastern University Bay Area	May 2023 – July 2024
Vice President – Adobe Club - Northeastern University	May 2023 – May 2024
Professional Assistant - Practice School Program Division, BITS Dubai	Jan 2018 – Jun 2019
Event Management Head- IEEE & Gen Sec - Social & Environment Club, BITS Dubai	May 2017 – May 2018