VIGNAN VENNAMPALLY

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EDUCATION

Northeastern University | Boston, MA — Expected May 2023
Masters in Data Analytics Engineering, GPA - 4.0
Course Work: Machine Learning | Data Analytics | Data Visualization & Computation| Database Management

Indian Institute of Information Technology, Jabalpur, India — Jul 2020
Bachelors in Electronics and Communication Engineering
Course Work: Data Structures & Algorithms | Business Analytics with R | Probability & Statistics

TECHNICAL SKILLS

Programming: Python (Pandas, NumPy, Seaborn, Scikit-learn, Scipy), R, SQL, Java
Databases: MySQL, MongoDB
Visualization Tools: Tableau, Power BI
Data Engineering: ETL, Hadoop, Apache Spark, Map Reduce
Technologies & Operating Systems: AWS, Microsoft Excel, PowerPoint, Linux OS
Machine Learning & Statistics: Supervised (Classification, Regression), Unsupervised (Clustering, Association), Feature Engineering, Time Series Analysis, Predictive modeling, forecasting techniques, Hypothesis testing, A/B test

PROFESSIONAL EXPERIENCE

Teaching Assistant| Northeastern University, Boston, MA — Jan 2021 - Present
- Mentored 100 Graduate and Undergraduate Students in Business Analytics, Fundamentals of Analytics Courses
- Organized Tableau, Python, Data Analysis, Data Visualization sessions to help understand concepts
- Assisted professor in creating, developing and grading assignments

Software Engineer, Data Science Application| Ericsson India Global Services, Bangalore, India — Aug 2020 - Aug 2021
- Engineered Azure & Linux configuration of DSS Application in POC, Sandbox, and Production Instances
- Developed efficient Linux scripts and macros in Python to automate server, log management, memory management tasks boosting server performance
- Resolved 100+ production issues of DSS application boosting bug velocity by 10%
- Involved in 10 Machine Learning use case projects starting from data collection to Model deployment

Data Science Intern | IIT Kanpur, India — May 2019 - Nov 2019
- Conducted Extensive data extraction from MySQL, MongoDB Databases through efficient SQL queries
- Built an ML model to predict dropout rates from MOOC courses tuning model performance to 93% resulting in increasing retention rate of customers by 25%
- Enhanced and Redesigned Analytical Interface of mooKIT Platform through Python framework (Plotly Dash), Power BI and Tableau to gain statistical insights of 200 course participants

PROJECTS

University - Student - Financial Enterprise Model | Northeastern University — Sep 2021 - Dec 2021
- Designed database for University Student Bank loan ecosystem to help students and banks in making better decisions. Modeled ER, EER, UML and Relation Data Models
- Integrated MySQL and Neo4j database with python to draw insights using Seaborn and Matplotlib libraries

Time Series Analysis of human activity monitoring data | Northeastern University — Oct 2021 - Dec 2021
- Explored walking, running, climbing down, climbing up data of 15 subjects to extract time series features
- Developed Scatter Plots for all activities applying natural visibility graph (NVG) and horizontal visibility graph (HVG) methods

Feedback Analysis of Fest Data | IIITDM Jabalpur — Feb 2019 - Apr 2019
- Collected & Preprocessed feedback data from 50+ fest events employing NLP techniques
- Classified data using Naïve Bayes classifier as positive and negative feedback to improve the facilities

Community Detection in Complex Networks | IIITDM Jabalpur — Aug 2018 - Jan 2019
- Implemented Travelling Sales Man Problem to understand working mechanism of Metaheuristic Algorithms
- Optimized most advanced algorithm in community detection practicing Modularity Optimization technique