DIVYA BOMARABOINA

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EDUCATION

Northeastern University |Boston, MA   **Expected Graduation: April 2026**
Master of Professional Studies Analytics (Concentration in Machine intelligence)   GPA:3.8/4.0
Bharat Institute of Engineering and Technology | Hyderabad, India   **July2018-July2022**
Bachelor of Technology in Electronics and Communication Engineering   GPA: 3.0/4.0

SKILLS

- **Programming Languages**: Python, SQL, R, Java
- **Machine Learning & AI**: LSTM, Random Forest, XGBoost, TensorFlow, scikit-learn
- **Data Visualization & Frameworks**: Tableau, Power BI, Streamlit, Qlik, matplotlib, Seaborn
- **Automation & APIs**: REST API, Fast API, SoapUI, Selenium
- **Data Management**: Data Validation, Transformation, Cleansing, Integration

PROFESSIONAL EXPERIENCE

Infosys | Chennai & Mysuru, India
System Engineer Trainee → Test Engineer   **November 2022 – November 2023**

- Developed and maintained data validation frameworks for banking applications, improving report accuracy and reducing data inconsistencies by 20% through automated validation checks.
- Automated website field validation test cases using Selenium, reducing manual testing effort by 40% and improving anomaly detection efficiency.
- Utilized Excel as a data provider for the TestNG framework, streamlining test execution and reducing manual data handling by 50%.
- Executed ETL processes during the Systems Engineer Trainee phase, optimizing data workflows and ensuring data integrity across transformed datasets.

ACADEMIC PROJECTS   **September 2024 –December 2024**

AI-Driven Predictive Project Management Tool

- Conducted **Exploratory Data Analysis (EDA)** on a 76-table database, identifying key trends, resolving inconsistencies, and preparing data for predictive modeling.
- Developed a **web app** with a Tableau dashboard and **Fast API** chatbot, automating **70%** of project updates and improving response time by 40%.
- Built **Random Forest** and **LSTM** models using **pandas**, **NumPy**, **TensorFlow**, achieving **85%** accuracy in forecasting task progression, status, and delays.
- Implemented an **AI-powered risk detection system**, improving risk assessment accuracy by **25%** and reducing unplanned project delays.
- Generated real-time insights on risks, **resource allocation**, and performance trends, cutting manual tracking by **50%** via an interactive dashboard.
- Presented findings to the class, demonstrating a **scalable**, **automated**, and **data-driven** solution that enhanced project management efficiency and decision-making

COVID-19 Data Analysis and Predictive Modeling

- Analyzed a CDC dataset of **137,700+** records to predict COVID-19 **mortality trends** and study **correlations** with **pneumonia** and **influenza**.
- Utilized Python for statistical modeling, improving accuracy by **20%** with **regression** techniques and enhancing forecasts by **25%** using LSTM models.
- Visualized seasonal trends and **high-risk demographics** with interactive **Plotly** dashboards, highlighting increased mortality among elderly populations during **winter** months.
- Achieved **85%** accuracy in **predictions**, identifying strong **COVID-19-pneumonia** correlations and weaker links with **influenza**.
- Collaborated with a team, reducing completion time by **30%** and improving analysis quality while delivering strategies for high-risk populations during critical periods

GitHub: www.github.com/divyabomaraboina   **Portfolio**: https://divyabomaraboina.my.canva.site/