NAVEEN REDDY MAREDDY

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OBJECTIVE

Technology-driven data engineer and front-end developer with expertise in ETL processes, cloud platforms, and UI/UX design. Experienced in developing scalable data solutions and interactive applications that enhance data visualization and business intelligence

EDUCATION

- **Florida International University** *April 2025*
  Masters in Computer Science - 3.78 / 4.00 Miami, USA

  Adv Data Mining, AI & Machine Learning, Cloud Architecture, Web Application Development

- **Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology** *May 2023*
  Bachelor of Technology in Computer Science - 8.7 / 10 Chennai, India

SKILLS

- **Programming Languages/Scripting:** Python, SQL, Java, C, R, HTML, CSS, JavaScript
- **Framework/Tools:** Tableau, Power BI, Excel, Jupyter Notebook, PySpark
- **Database & Cloud:** MySQL, PostgreSQL, AWS, Snowflake
- **Big Data & ETL:** Data Pipeline Construction, Data Warehousing, Data Cleaning, Data Wrangling, ETL Processes

EXPERIENCE

- **Florida International University** *Aug 2024 - present*
  Teaching Assistant Miami, Florida
  - Designed and structured the **course catalog** for 200+ students, emphasizing UML-driven object-oriented analysis, system design, testing techniques, and data-driven methodologies
  - Provided technical guidance on **project development, emphasizing data analytics, ETL processes**, and data-driven decision-making frameworks
  - Assisted students in understanding big data concepts, enhancing SQL querying skills, and applying business intelligence tools, leading to a 30% improvement in project quality

- **iThots Technology Solutions Pvt. Ltd** *Jan 2023 - May 2023*
  Front end Developer Chennai, Tamil Nadu
  - Developed **dynamic and responsive user interfaces**, increasing website usability by 40% using frameworks like **React.js, and Bootstrap**
  - Collaborated with backend teams to integrate dynamic **data visualizations and dashboards**, improving analytics accessibility for 5,000+ users
  - Revamped website functionality and design by refactoring 100% of existing UI components while adhering to the latest industry standards

PROJECTS

- **Crop Yield Prediction Using Machine Learning Technique**

  Python, Jupyter Notebook, scikit-learn Library, Data Processing
  - Deployed a machine learning model using the **Random Forest Algorithm, achieving 98% prediction accuracy** by training on 1.5 million+ data points across various climate parameters such as temperature, rainfall, and soil moisture
  - Engineered an end-to-end **data pipeline for preprocessing and feature engineering**, reducing data processing time by 35% through optimized cleaning, normalization, and missing value handling
  - Implemented a scalable crop yield prediction system by leveraging hyperparameter tuning, ensemble learning techniques, and performance evaluation through MSE scores, **improving prediction reliability by 20%**

- **Bus Pass Management System**

  HTML, CSS, JavaScript, PHP, MySql, Bootstrap
  - Built a user-friendly a web-based bus pass system using HTML, CSS, and JavaScript, integrating PHP and MySQL for backend data management, enabling seamless **digital pass generation** to reduce 90% manual processing time
  - Implemented **user authentication** with **session-based login in PHP**, ensuring secure user verification and role-based access, reducing unauthorized access and upgrading system reliability
  - Designed a 100% mobile-responsive front-end using **Bootstrap & JavaScript**, ensuring seamless user experience with real-time bus pass validation and renewal alerts, benefiting 10,000+ users

CERTIFICATIONS

- IBM Certified Machine Learning with Python
- Completed AWS Virtual AI-ML Internship and proficient in cloud computing principles

VOLUNTEER EXPERIENCE

NSS - National Service Scheme- Student Volunteer

- Planning Led data-driven projects for **social impact**, including developing dashboard reports and **identifying needs**