MOUNIKA NADIMPALLI

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Software Engineer and Data Analyst

EDUCATION

Indiana University Bloomington Aug 2022 – May 2024
Master of Science in Computer Science *GPA - 3.95/4.0*

Gokaraju Rangaraju Institute of Engineering and Technology Aug 2018 – May 2022
Bachelor of Technology in Electronics and Communication Engineering *GPA - 8.81/10*

Coursework: Applied Algorithms, Software Engineering, Applied Machine Learning,Data Mining,Database Design (DB), Computer Networks, Security for Networked Systems,OS ,Object Oriented Programming.)

TECHNICAL SKILLS

Programming Languages: Python, C, Java,SQL
Web Development: React.js, Node.js,Express.js,HTML, CSS,SCSS,Javascript,Flask,GIT,REST API,Relational Databases,MY SQL,No SQL, Mongo DB, Git
Data Analysis and ML: SQL,Statistical Analysis,Scikit-learn,Keras,Pandas,NumPy, MS Excel
Data Visualization: Tableau, Power BI,Matplotlib,Seaborn

WORK EXPERIENCE

Techsol Corp, *Full Stack Developer Intern* India, Nov 2021 – Feb 2022

- Implemented RESTful APIs using Python, facilitating seamless communication between backend services and frontend solutions. Developed and deployed web applications, leveraging React and its frameworks for intuitive user interfaces.
- Implemented role-based access control, allowing different team members to view and update project data based on their roles and permissions.
- Implemented modular and reusable React components, reducing code duplication by 30% and enhancing code maintainability, resulting in a 20% increase in development efficiency.

INMOVIDU Tech, Apsis Solutions ,*Intern, Data Analyst* India, July 2020 – September 2020

- Extracted meaningful insights and identified patterns from raw data by engaging in data wrangling and conducting both qualitative and quantitative analyses.
- Achieved 19% improvement in data quality and accuracy through SQL data transformation. Reduced data processing time and increased pipeline efficiency by 13% through optimization efforts.
- **Tableau and Power BI:** Created interactive visual reports using Tableau and Power BI, resulting in a 29%. improvement in data accessibility for non-technical team members. Collaborated closely with data collection teams, playing a key role in web data scraping, cleaning, and pre-processing to enhance analytics capabilities.

ACADEMIC PROJECTS

Venue-Finder [Software Engineering Project] - React JS and libraries, Flask Python framework, MySQl

- Spearheaded the development of a user-friendly web application catering to customized venue/banquet hall booking with additional features: Space bookmarking,Session management,payments.
- Achieved a 20% reduction in API response times through optimized query execution and data caching strategies, demonstrating proficiency in both frontend and backend technologies.

Spotify-Clone - Mongo DB,Express.js,React.js,Node

- Developed a front-end replica of Spotify's web app Achieved a 95% similarity in UI design compared to the original design,and engineered a full-stack (MERN) music player utilizing Spotify Developer APIs, showcasing expertise in UI/UX design and MERN stack development.
- Demonstrated proficiency in the MERN (MongoDB, Express.js, React, Node.js) stack by enabling seamless integration and communication between client and server-side components.

Financial Analysis of Artists in New York, Tableau, Data Collection,Python

- Led a data collection and visualization initiative for the Financial State of New York artists, creating a sophisticated dashboard with a stability index based on multiple attributes.
- Implemented action filters and parameters for dynamic financial exploration.

Accident Severity Prediction System -[ML Framework] RFC, Data wrangling,Tableau, XGBoost, LR

- Performed predictive modeling, enhancing safety measures by accurately predicting crash severity.
- Conducted number of statistical calculations and data analysis expressions (**DAX**) uncovering data patterns and correlations. Additionally, programmed machine learning models (XGBoost, RF) achieving 90.1% accuracy through rigorous evaluation and hyperparameter fine-tuning.