Muhammad Salman

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About Me

Data science enthusiast with practical experience in machine learning, NLP, and database development. Skilled in Python, SQL, Excel, and deploying analytical solutions to the cloud. Driven by curiosity, guided by data.

Experience

AI Intern June 2024 - Aug 2024
Aim Lab | Islamabad, Pakistan

- Led a team of 5 in developing an email template generation project using Gemini API for text generation and Stable Diffusion for images, enhancing project delivery time and quality.
- Built and maintained web applications using React.js and Git for version control.
- Deployed backend services on AWS EC2 and frontend on Vercel using React.js, reducing hosting costs by 70% and improving application reliability.

Education | Certifcations

FAST Nuces | B.S. Data Science (CGPA: 3.24) Aug 2022- Present

Excel Business Intelligence: Power Pivot, DAX and Data Modeling Linkedin | Issued Aug 2024
Excel PivotTables: Mastering PivotTables and PivotCharts Linkedin | Issued Aug 2024
Preparing Data for Analysis with Microsoft Excel Microsoft | Issued Feb 2024
Harnessing the Power of Data with Power BI Microsoft | Issued Mar 2024
Introduction to AWS Datacamp | Issued Jun 2024
Supervised Machine Learning: Regression and Classifcation DeepLearning.AI | Issued Jun 2024
Pandas Kaggle | Issued Jun 2023

Skills

Languages : Python | C++ | SQL | HTML | CSS
Database : MongoDB | MySQL | Azure SQL Database
Tools : Excel | Tableau | PowerBI | Pycharm | Visual studio | Google colab | Jupyter Notebook | Apache Hadoop | Apache Spark | Apache Kafka | AWS Cloud (EC2, S3) | Azure

Projects

Email Template Generation | Github **Python | Azure SQL Database | React.js**

- Developed an email template generation system utilizing the **Gemini API** for text generation and **Stable Diffusion** for image generation.
- Built a dynamic and responsive frontend using **React**, allowing users to easily generate and customize email templates with AI-generated content directly from the web application.
- Deployed the application on **Amazon AWS**, ensuring reliable and scalable hosting, while using **Azure SQL Database** for secure and efficient data storage.

Electric Load Forecasting | Github **Python | React.js | Scikit-learn | Time Series | Clustering | RandomForest**

- Implemented a machine learning pipeline for electric load forecasting using **time series analysis**, **clustering**, and **Random Forest models**.
- **Engineered features**, **normalized data**, and decomposed time series for accurate pattern recognition and prediction.
- Built an interactive **React.js** dashboard to visualize forecast results, cluster insights, and model performance.

TB Dashboard | Github **Python | JavaScript | D3.js**

- Built a web dashboard using **HTML**, **CSS**, **JavaScript**, and **D3.js** featuring interactive visualizations like timelines, treemaps, and maps.
- **Structured the project modularly** with dedicated folders and integrated responsive design, tooltips, and zoom/pan features.