




Praveen Bejjam

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 linkedin

 GitHub

Skills

Microsoft Azure Fabric

Data Engineering: DBT, ETL,OneLake

Python

- Numpy
- Pandas
- Matplotlib
- Seaborn

Power BI

- DAX(Data Analysis Expression)
- Data Modeling

AI/ML

- Machine Learning(Basics)
- Deep Learning(Basics)

DataBase

- MySQL
- AWS(Basics)

Excel

- V-lookup,H-lookup
- Aggregate Functions

Education

2024/04
Rajam, India

Bachelor of Technology
Computer Science and Engineering
GMR Institute Of Technology
CGPA: 7.3

Projects

End-to-End Earthquake Data Processing and Visualization using Microsoft Fabric

- **Designed** a multi-layered data pipeline in **Microsoft Fabric** to process worldwide earthquake data using **USGS API**.
- Performed data transformation using PySpark across Bronze, Silver, and Gold layers, including reverse geocoding and significance classification.
- Built an interactive Power BI dashboard for visualizing earthquake severity, distribution, and trends over time.

Multimodal Fusion of Transformers: Enhancing Contextual Understanding in Image Analysis

- Engineered an **image captioning system** using **Inception V3** and **neural attention layers**, improving **modality alignment**.
- Generated captions for **8,000+ images**, achieving a **BLEU-4 score of 84.78**, outperforming baseline models.
- Optimized computational efficiency, **cutting runtime by 15%** and **training time**.

Library Management System (MySQL)

- Designed a **scalable relational database** for **7 branches**, cutting loan processing time by **50%** and manual errors by **40%**.
- Structured **normalized tables** for **7 key entities**, ensuring **data integrity and consistency**.
- Optimized schema for **real-time tracking**, **enhancing scalability** and **reducing query response times by 30%**.

Weather Data Analysis (Power BI)

- Examined **weather patterns** to **improve disaster preparedness by 20%** and support **agriculture and public health**.
- Cleaned and processed **large datasets**, enabling **5+ departments** to make informed decisions.
- Built **Power BI dashboards**, reducing **report generation time by 30%** and refining insights.
- Conducted **statistical analysis**, **increasing forecast accuracy by 20%** and improving **resource planning**.

Internship

present

Intern, Seanergy Digital

- Developed and managed **Dataflows and Pipelines** in **Microsoft Fabric**, streamlining data ingestion and transformation from multiple sources using Fabric SQL.
- Performed **data transformation and append operations** on structured datasets, ensuring accurate schema mapping and integration for further analysis.
- Designed and implemented **Semantic Models** and built interactive **Power BI dashboards**, enabling efficient data visualization and business intelligence reporting.

2025/02

Intern, Innomatics Research Labs

- Analyze and preprocess **large datasets** using **Python** extracting key insights.
- Create **interactive Power BI dashboards**, simplifying **data visualization and reporting**.

2023 – 2024

Completed a 3-month internship at MSME Technology and Training Center, mastering skills in React JS and IoT. [↗](#)

- **Deployed a registration-based chat system** using Firebase and AWS, enabling secure communication between **verified users** who signed up through a dedicated link.
- **Implemented real-time messaging**, reducing response time to **under 1 second**, ensuring seamless user interactions.

Certifications

- **Python (Basic)** and **SQL (Basic)** – HackerRank
- **Data Analyst Certification** – Innomatics Research Labs
- **Machine Learning Foundations** – AWS Academy
- **Google Data Analytics** – AWS Academy

Publications

Paper Document in IEEE [↗](#)

Certification [↗](#)

Presented "Multimodal Fusion of Transformer with Attention Mechanism for Improved Contextual Understanding" at the **International Conference on Data Science, Agents, and Artificial Intelligence (ICDSAAI 2023)**, organized by the Center for **Artificial Intelligence and Research, Chennai Institute of Technology**, December 21-23, 2023.