Praveen Bejjam

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in linkedin ⊙ GitHub

Education

2024/04	**Bachelor of Technology**
Rajam, India	*Computer Science and Engineering*
	CGPA: 7.3

Skills

Python
- Numpy
- Pandas
- Matplotlib
- Seaborn

AI/ML
- Machine Learning(Basics)
- Deep Learning(Basics)

Tools and Frameworks
- IDEs
- version control (Git)

Excel
- V-lookup,H-lookup
- Aggregate Functions

Statistics
- Descriptive statistics
- Inferential Statistics
- Hypothesis

Data Engineering:
DBT, ETL, Snowflake

DataBase
- MySQL
- AWS(Basics)

Power BI
- DAX(Data Analysis Expression)
- Data Modeling

Web Scrapping
BeautifulSoup,selenium

Projects

Multimodal Fusion of Transformers: Enhancing Contextual Understanding in Image Analysis
- **Designed** an image captioning system utilizing Inception V3 for feature extraction and neural attention layers for modality alignment.
- **Implemented** sequence-to-sequence architecture, generating captions for 8,000+ images with a BLEU-4 score of 84.783.
- **Enhanced** efficiency by reducing computational runtime by 15%.
- **Optimized** annotation accuracy through advanced sequence modeling techniques.

Web Scraping and Analysis of Engineering College Rankings
- **Scraped** and analyzed data from Careers360 to extract insights on top engineering colleges in India.
- **Utilized** Python tools and Selenium to process dynamic content, enabling robust data extraction.
- **Visualized** patterns like state-wise rankings, fees distribution, and correlations through interactive dashboards.
- **Identified** actionable insights by linking rankings, ratings, and fees to support aspirant decision-making.

Library Management System (MySQL)

- **Designed** a scalable relational database for 10+ branches, reducing loan processing time by 50% and manual errors by 40%.
- **Developed** normalized tables for 6 key entities, improving data integrity and consistency.
- **Optimized** schema for real-time tracking, enhancing scalability and reducing query response times by 30%.
- **Automated** data updates, achieving a 25% increase in efficiency and 15% faster data retrieval.

Weather Data Analysis (Power BI)

- **Analyzed** weather patterns to improve disaster preparedness by 20% and support agriculture and public health.
- **Cleaned** datasets on key weather variables, aiding 5+ departments in decision-making.
- **Built** Power BI dashboards, reducing report generation time by 30% and improving insights.
- **Conducted** statistical analyses to enhance forecast accuracy by 20% and optimize resource planning.

Internship

2024 – present	**Intern, Innomatics Research Labs** - Assisting in data analysis, preprocessing, and visualization tasks. - Working with Python, SQL, and Power BI to derive insights from datasets. - Engaging in real-world projects related to data science and analytics.
2023 – 2024	**Completed a 3-month internship at MSME Technology and Training Center, mastering skills in React JS and IoT.** ⮺ - **Developed** the chat application using Firebase and **AWS** to facilitate communication between individuals in the workplace. - **Established** the backend code to support real-time messaging and seamless communication between users.

Certifications

- **Python (Basic)** and **SQL (Basic)** – HackerRank
- **Data Analyst Certification** – Innomatics Research Labs
- **Data Analytics and Visualization**-Accenture by Forage
- **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.