SPOORTHY SHIVANI PABBA

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Houston, USA

Profile

Data science graduate student at the University of Houston with a solid foundation in data analytics and machine learning. Seeking opportunities to collaborate in a professional environment, leveraging analytical skills to solve complex problems.

Education

Master of Science in Engineering Data Science, *University of Houston* 2023 – present | Houston, United States

Bachelor of Technology in Information Technology, 2017 – 2021 | Warangal, India
Kakatiya Institute of Technology and Science
Secured 9.47 on 10 GPA. Received Gold Medal for Academic Excellence. President for Coding club.

Professional Experience

ETL Developer, *Chubb India (CBSI)* 2021 – 2023 | Hyderabad, India
- Executed ETL pipelines for the APAC CHUBB INSURANCE Project, handling and processing 2TB+ of data.
- Designed and implemented data visualization strategies in 15+ reports using Excel and Tableau, improving data interpretation.
- Leveraged Informatica Cloud services for 99.9% seamless data transformation and calculations. Developed an Excel-based solution for de-tokenizing Personally Identifiable Information (PII) data, resulting in a 30% improvement in data privacy
- measures.
- Utilized SAS for streamlined data processing and analysis, optimizing workflows in the insurance sector.

Internship, *Chubb India (CBSI)* 2020 – 2021 | Hyderabad, India
- Contributed actively to 8+ projects centered around Informatica Cloud and Azure SQL Server.
- Achieved a 20% optimization in data storage and retrieval processes through a foundational understanding of relational databases.
- Enhanced Excel skills, utilizing advanced functions for the efficient generation of 12+ reports.
- Gained hands-on experience with SQL, enhancing effectiveness in handling and querying large datasets.
- Conducted 15+ meetings with business clients, gaining valuable insights into data from a business perspective

Research Assistantship, *National Institute of Technology, Warangal (NITW)* 2019 Apr – 2019 Jul | Warangal, India
- Applied statistical methods to 10+ projects, achieving a 93% success rate in efficient image processing tasks.
- Conducted a comparative analysis of 5+ image processing techniques for object detection, incorporating Machine Learning methodologies.
- Produced 25+ detailed statistical reports and created visual representations in the form of tables and charts.

Projects

Mini My GPT, *Utilized VectorstoreIndexCreator for efficient indexing and querying of text documents, enhancing user experience with python's tkinter library to interact with OpenAI's GPT model.*
- Developed a Python desktop app with OpenAI's GPT model for real-time text conversations.
- Implemented text file reading for context, handling 100+ documents seamlessly.
- Utilized tkinter for an intuitive GUI.
- Boosted app performance by 30% through efficient data processing and model use.
- Improved user engagement by 40% with customizable conversation styles.

Predictive Employee Performance Analytics, *(Python, ETL, SQL)*
- Developed Predictive Employee Performance Analytics system, boosting accuracy by 15%.
- Integrated Python, advanced ETL, and SQL for streamlined data processing.
- Applied Regression Analysis (R^2=0.82), Time Series Forecasting (MAE=4.2%), and PCA.
- Orchestrated preprocessing with Data Imputation (RMSE=1.5%) and Outlier Detection (Precision=92%).
- Implemented SQL for efficient data retrieval, reducing query response time by 20%.
- Generated reports enriched with Pearson Correlation (r=0.78), increasing accuracy by 18%

AI-driven Recipe Recommendation System, *NLP, Python,Django, Flask, React, and Node.js*
- Utilized NLP for recipe searches and ML algorithms with TensorFlow and PyTorch for personalized suggestions.
- Tailored recommendations based on 5,000+ user preferences and dietary restrictions.
- Implemented algorithms to analyze available ingredients, achieving 90% accuracy in suggestions.
- Improved user satisfaction to 80% with a seamless interface.

Image Segmentation Based Hybrid Watermarking Algorithm for Copyright Protection,
Published paper at 11th IEEE International conference on Computing, communication and Networking Technology (ICCCNT).

- Developed an efficient algorithm for image segmentation, enhancing copyright protection measures and achieving a 90% success rate.
- Led the project as the primary researcher, managing the algorithm development and testing phases.
- Received appreciation as detailed research with significant contributions to the project from the professor for my performance

Skills

Language:
Python, Java, C, C++, SQL,R

Web Technologies:
HTML, CSS, Javascript ,PHP

Database: Microsoft SQL (SSMS)

Tools:
IICS cloud, Informatica on-premise, Tableau, Excel, Git, MATLAB.