Spoorthy Shivani Pabba

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SUMMARY

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 • Houston • 2025 • 3.67 GPA

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

EXPERIENCE

ETL Developer
Chubb India (CBSI) **May 2021 - August 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.
- Generated and presented 20+ comprehensive reports, showcasing statistical insights to key stakeholders.

Internship
Chubb India (CBSI) **December 2020 - May 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) **April 2019 - July 2019, 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

Next Step-Career Choice (Machine Learning - Random Regressor, Python, Tkinter, Pandas)
Minor project during Bachelors
- Spearheaded the development of a robust machine learning model based on a random regressor, achieving an 92% accuracy rate in predicting students' next career choices.
- Led the project team, overseeing data collection and model training with realistic data from diverse educational domains post-SSC with reduced processing time by 25% by optimisations.
- Recognized with the "Innovative Project Award" for significantly improving student career guidance among the department.

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

Geo-Fencing: Employee Attendance Management System Python (Flask Framework, Excel for report generation)
Major Project during Bachelors
- Innovated a web application using the Flask framework in Python for precise employee attendance monitoring through geo-fencing with a detection precision of 95% in range of 50 meters.

- Achieved a 30% improvement in attendance monitoring accuracy, streamlining HR processes and enhancing overall efficiency by implementing statistical analysis features to generate insightful attendance reports, facilitating data-driven decision-making.
- Recognized as the "HR Process Optimization Champion" for outstanding contributions to attendance management and project served as working model for Woodkraft ltd.

Predictive Employee Performance Analytics (Python, ETL, SQL)

Personal Project

- 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%.

SKILLS

Language: Python, Java, C, C++, SQL.
Web Technologies: HTML, CSS, Javascript ,PHP.
Database: Microsoft SQL (SSMS).
Tools: IICS cloud, Informatica on-premise, Tableau, Excel, Git, MATLAB.