

VYSHNAVI KARUMURU

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EDUCATION

Florida International University, Miami, United States

Aug 2022 – Dec 2023

MS in Computer Science

(CGPA – 3.63)

MLR Institute of Technology, Hyderabad, India

July 2017 – June 2021

BTECH in Information Technology

(CGPA – 3.30)

KEY SKILLS

Languages: Java, R, Python, HTML5, CSS3, JavaScript

Database Servers/ Cloud Technologies: My SQL, PostgreSQL, MongoDB, AWS, Azure

sVisualization Tools: Qlik Sense, PowerBI, Tabluae, Informatica Power Center, Power Apps, Microsoft Office 365

ERP Systems: Microsoft Dynamic CRM, Salesforce

Machine Learning Techniques: LDA, Random Forest, Logistic Regression, Naïve Bayes, Scikit, Seaborn, Tesseract, Pandas, etc.

WORK EXPERIENCE

Suvarna TechnoSoft, Data Analyst, Full Time

Jan 2020 – July 2022

- Analyzed and Visualized HMIS patient's billing records, and insurance data using **Python, SQL, Excel, and Power BI**, which involved all phases of data mining, data collection, data cleaning, visualizations, and validations, etc.
- Developed **ETL** pipelines using **Informatica Power Center**, resulting in 25% reduction in data processing time and a 30% improvement in data Accuracy.
- Enhanced data storage, processing and retrieval capabilities using **AWS**, which improved scalability by 50% which boosts efficiency for data analytics workflows, effective management of a huge insurance datasets.
- Delivered dynamic dashboards on patient demographics, revenue trends, and insurance claims, empowering strategic decisions using **Power BI**, enhancing stakeholder engagement by 20% and decision-making efficiency by 15%.
- Developed and optimized **SQL** queries to extract, streamline data manipulations, and analyze data from large datasets, enabling the generation of **ad hoc reports** and identification of trends.
- Implemented risk mitigation strategies and collaborated with cross-functional teams to integrate data analysis insights into business processes, effectively communicating findings using PowerPoint, to ensure data integrity, accuracy, and informed decision-making.

Suvarna TechnoSoft, Data Analyst, Intern

July 2019 – Dec 2019

- Built and analyzed datasets using **Python & SQL** on patients' data which involved all phases of data mining, data collection, data cleaning, and validations on hospital management information systems.
- Developed pivot tables in **Excel** to efficiently analyze and summarize large datasets, enabling insightful reporting and decision-making in hospital management systems.
- Created data models and dashboards using **PowerBI** to produce reports for marketing targets and Business KPIs, focusing on patient payment data analysis.

PERSONAL PROJECTS

Student Performance Analysis in MOOC's

- Developed a desktop application using Machine Learning, Python, HTML, CSS3 which could be utilized in different online learning portals to enhance student learning efficiency.
- Predicts student performance using multiple algorithms such as Random Forest, linear discriminant analysis and depending on the student's previous results and selects the best efficient score.

Car Price Prediction

- Built a desktop application using Machine Learning, and Python.
- Boosts the sales of different automobile purchase websites or showrooms and anticipates the price of a vehicle, which clients are willing to pay based on several features by building and training the machine learning models.

License Plate Recognition

- Developed a desktop application using Image Processing Technology and Python that is used in various security and traffic applications to identify vehicles by their license plates.
- Helps to extract license plates from vehicle images using Python, Tensor Flow, and Keras image processing methods, and retrieves the license number from the extracted license plate.

CERTIFICATIONS

- Microsoft Certified:** Azure Fundamentals and Data Fundamentals
- Udemy:** Python Certified