Kavya Govindaraju

Bloomington,Indiana, USA
812-650-8799 kagovind@iu.edu linkedin.com/in/kavya-govindaraju github.com/kavyaraju20

Education

Indiana University Bloomington **Aug 2023 - Present**
Master of Science in Data Science *Bloomington,USA*
Relevant Coursework: Applied Algorithms, Applied Machine Learning, Statistics, Data Mining, Cloud Computing (AWS), Big Data Applications

Sir M Visvesvaraya Institute of Technology **July 2018-June 2022**
Bachelor of Engineering in Information Science *Bangalore,India*
Relevant Coursework: Data Structures, Database Management, Algorithms, Software Engineering, Big Data Analysis, Data Mining, Artificial Intelligence, Web Technology, Social Media Mining

Experience

University Information Technology Services IU **July 2024 – Present**
Enterprise Systems Metrics Intern(Data Analyst) *Bloomington, USA*
- Integrated Google Analytics across all enterprise systems, on over 1 million records and enabled standardized metrics, resulting in a 30% increase in actionable insights for strategic decision-making.
- Developed metrics dashboards tied to the Primary Constituent Data Source (PCDS), improving stakeholder engagement by 25%. Established outcome-based metric definitions and led a working group, increasing project success rates by 20%.

Cognizant **September 2022 – June 2023**
Programmer Analyst Trainee *Bangalore, India*
- Conducted Exploratory Data Analysis (EDA) as part of the data analytics team to understand datasets and identify patterns, trends, and relationships.
- Prepared the data by cleaning, removing outliers, and transforming the financial data suitable for analysis and uncovering valuable insights that directly informed cost-saving strategies and investment decisions, improving operational efficiency by 10%.

Projects

Enhancing Hospital Efficiency using ML | *Python,Numpy,Pandas,XGBoost,Predictive Modeling,Data Cleaning*
- Predicting patient Length of Stay (LOS) to optimize treatment plans and reduce infection rates.
- XGBoost was used to build a predictive model for estimating patient LOS and improve accuracy of predictions
- Achieved an accuracy of 85%, reducing patient LOS by 20%, and infection rates by 15%.

Langchain Streamlit chatbot for EDA using LLMs | *OpenAI,Langchain Framework,SQL,Streamlit,Matplotlib,Plotly*
- Creating a Streamlit chatbot to facilitate conversational interactions with a SQL database using natural language input.
- The chatbot transforms user instructions into queries to fetch data and to generate dynamic visualizations.
- This integration provides users with insightful analytics and visualizations, simplifying data access and interpretation through conversational AI and visual tools.

Typing Assistant | *Python,NLP,HTML,CSS*
- Developed a Typing Assistant with auto-complete and word prediction features.
- Utilized NLTK, N-gram models,HTML,CSS to develop the application, where the server predicts string sequence outcomes by extracting parameters from the query and returning results for the client's keyboard interface.
- Improved typing efficiency by 40% and enhanced user productivity by 35%.

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL,R,Matlab
Data Science: Supervised/Unsupervised Learning,NLP,Classification,Regression,Clustering,Naive Bayes,Decision Trees,Predictive Models,Data Pipelines,ETL,Statistical Modeling,Model Selection,Data Mining, Data Visualization, Social Media Mining, Database Management, Machine Learning,Gradient Boosted Machines,Neural networks,LLMs
Python Libraries: Scikit-Learn,Tensorflow,Numpy,Pandas,Matplotlib,NLTK,JSON,Seaborn,Pytorch
Tools: GIT,MySQL,Tableau,Jupyter Notebook,VS Code,AWS,MS Office(Word,Powerpoint,Excel,Outlook,Access),Microsoft Power BI, Atlassian Suite,Salesforce,Google Analytics,Looker Studio
Soft Skills:Communication skills,Organization skills,Adaptability,Analytical skills,Problem solving,Critical Thinking

Publications

Analysis of Big Data in Finance Sector **April 2022**
- The focus of this paper is to study the extent of transformation in the financial field.Published by IJARESM with an impact factor of 7.42