Kenny Lawrence Swamy

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EDUCATION

Indiana University Bloomington

Aug 2022-May 2024

Master of Science in Data Science; CGPA: 3.67/4

Bloomington, Indiana, USA

Coursework: Advanced Database Technologies, Statistics, Elements of AI, Information Visualization, Exploratory Data Analysis

JSPM's Rajarshi Shahu College of Engineering, Pune University

Aug 2016-May 2020

Bachelor of Engineering in Information Technology; CGPA: 8.47/10

Pune, Maharashtra, India

Work Experience

Tata Consultancy Services

Aug 2020 - Jul 2022

Pune, Maharashtra, India

- System Engineer • Designed and led the implementation of a high-throughput ETL data pipeline using Apache Spark and Airflow, which decreased data processing time by
- 10% and enabled 15% faster analytical decision-making, significantly enhancing support for real-time business strategies. • Proficiently managed IT infrastructure at Maersk, leveraging SCCM for application deployment, which improved system efficiency by 20% and reduced downtime by 30%. Achieved a system reliability score of 99.5%, ensuring high performance and system reliability.
- Enhanced network infrastructures for Hamburg Süd and Win365, increasing efficiency by 25% with virtual desktops and earned the 'Dynamic Employee of the Team' award for rapid improvements in project delivery.
- Optimized multiple SQL queries, significantly reducing execution times by 30 minutes, which enhanced database performance and efficiency.
- Established robust CI/CD pipelines for data applications using Jenkins, streamlining processes, and reducing data inconsistencies by 30%, thereby enhancing overall data quality and reliability.
- Created custom Tableau dashboards to analyze user interactions with Ultimatix application, enhancing data-driven decisions and leading to a 35% increase in stakeholder satisfaction.

Zensar Technologies May 2019 - May 2020

Software Developer Intern

Pune, Maharashtra, India

- Specialized in designing and optimizing MySQL database schemas, implementing efficient data structures that improved query performance and system. responsiveness.
- Maximized quantitative reporting with batch processing pipelines, cutting data processing time by 18%, and enabling faster data transformations, visualizations, and statistical analysis for improved decision-making.
- Advised on refining the supplier data modeling system, which boosted supplier competitiveness by 15% and raised conversion rates by 10%, enhancing overall business performance.

Projects

Virtual Tissue Simulation | Bloomington, Indiana, USA

Aug 2023 - May 2024

- Implemented a Retrieval-Augmented Generation (RAG) framework, with Large Language Models (LLM) for information retrieval, achieving 20% accuracy and efficiency boost.
- Developed a dynamic text summarization with a rolling context window, enhancing prompt optimization by 25% for superior results; created a Python script for t-SNE-based visualization of LLM embeddings on academic paper fragments, achieving a 30% increase in clustering precision.

Evolution Of Wildfire | Bloomington, Indiana, USA

Aug 2022 - Dec 2022

- Developed a Virtual Reality (VR) model with Python and R, processing an expanded 135 GB dataset, which increased data processing efficiency by 20%.
- Advanced EDA techniques improved environmental pattern recognition by 25%, with a 30% faster preprocessing time.
- The model accurately visualized wildfire evolution across terrains with 88% accuracy, enhancing its academic and research utility by 35%.

Job Recommendation System | Bloomington, Indiana, USA

Aug 2022 - Dec 2022

- Developed a model to predict the best-suited IT role based on skills extracted from resumes, using ML algorithms like SVM, Decision Trees, Random Forest, NN, Naive Bayes (Gaussian and Multinomial), collected via web scraping from LinkedIn/Indeed.
- Achieved 92% accuracy with the Random Forest model, leading to a 15% increase in user satisfaction and engagement and visualized outcomes through a network graph, showcasing a profound understanding of community dynamics and intricate topic clustering patterns.

Social Media Community Identification and Analysis | Bloomington, Indiana, USA

Aug 2023 - Dec 2023

- Pioneered analysis with Python's PRAW library for Reddit data extraction, increasing filtering precision by 30%.
- Employed K-Means clustering and Random Forest within a machine learning framework for efficient community classification, achieving a 35% accuracy
- Enhanced social media analysis by integrating NLP-based sentiment analysis and trend identification for Reddit leading to a 25% improvement in understanding user behavior and a 15% increase in trend predication accuracy.

SKILLS & CERTIFICATIONS

Programming Languages: Python, R, Java, SQL, C, C++, HTML, CSS, JSON, XML, PHP, D3, JavaScript Databases: Oracle, MySQL, RDBMS, SQL Server, SSIS, SSRS, NoSQL, MongoDB, PostgreSQL, Neo4j

Libraries: Matplotlib, Seaborn, BeautifulSoup, Scrapy, Scikit-learn, NumPy, PyPDF2, Pytorch, Keras, Pandas, Streamlit, Theano, Tensorflow Others: Microsoft Azure, AWS, Git, Tableau, LucidChart, Microsoft Power BI, Paraview, Unity, Advanced Microsoft Excel, Powerpoint, Microsoft Office, Visio Certifications: AWS Certified Machine Learning, IBM Python for Data Science, Business Analytics from LinkedIn Learning, Tableau Desktop Advanced.