Khasha Praveen Raju

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EDUCATION

Sreenidhi Institute Of Science and Technology **Aug 2019 – Nov 2023**
B.Tech(Computer Science and Engineering) - ***CGPA - 7.2*** *Hyderabad, IND*

Narayana Junior College **Jun 2017 – Apr 2019**
Intermediate - M.P.C - ***Percentage - 90%*** *Hyderabad, IND*

TECHNICAL SKILLS/ COURSEWORK

Languages: Python, R, C, SQL, MySQL
Tools / Platforms: Jupyter Notebook, Google Colab, Anaconda, VS Code, Git, GitHub
Frameworks / Libraries: Django, Flask, Scikit-learn, Pandas, NumPy, OpenCV, Tkinter
Data Science / ML: Data Analysis, Machine Learning, Predictive Modeling, Data Visualization
Dashboarding Tools: Spotfire (basic understanding), Excel
Concepts: OOPS, DBMS, Data Structures and Algorithms, Natural Language Processing

PROJECTS

LinkLoom | Django-based URL shortener **Feb 2024**

- Engineered a dynamic URL shortener platform enabling users to convert lengthy URLs into branded short links.
- Implemented data validation techniques and encryption algorithms to ensure the integrity and security of URLs, improving reliability by 25 percent.
- Analyzed user interaction data using descriptive statistics to identify trends and optimize user experience, resulting in a 15 percent increase in link usage.
- Employed Django's MVC framework for clean separation of backend logic and frontend rendering.

Image Caption Generator | A Chatgpt Tool **Oct 2023**

- Engineered a caption generation tool that leverages Natural Language Processing (NLP) and sentiment analysis to create context-aware, personalized image captions, enhancing user engagement by 40 percent.
- Utilized preprocessing and feature extraction techniques to improve caption accuracy, reducing prediction variance and enhancing model generalizability for diverse image datasets.
- Conducted model evaluation using BLEU score and ROUGE, improving caption relevance and coherence by 30 percent. Applied hyperparameter tuning to reduce error rates and increase caption generation speed by 20 percent.

Smart Attendance System – Facial Recognition Research Project | **Oct 2022 - Dec 2022**

- Designed and implemented a face recognition-based attendance tracking system published in IJSRE.
- Utilized OpenCV's Haar Cascade classifier for face detection and MySQL for attendance logging. Enabled automated attendance reports generation and integrated GUI using Tkinter.
- Conducted performance benchmarking under various lighting and angles, improving accuracy by 12 percent. Highlighted in academic research for its real-time detection performance and cost-effectiveness.

INTERNSHIP EXPERIENCE

YBI Foundation **Nov 2023 – Dec 2023**
DataScience Intern *Virtual*

- Developed and fine-tuned predictive models using Random Forest, Logistic Regression, and Linear Regression, achieving high accuracy for tasks like fish weight prediction and credit card default classification.
- Conducted data wrangling and feature engineering on diverse datasets, ensuring data quality and improving model performance by 15 percent. Collaborated with cross-functional teams to translate business problems into actionable insights, presenting findings through data visualization tools like Matplotlib and Seaborn.
- Utilized version control with Git and showcased project progress on GitHub, ensuring streamlined development and collaboration.

YBI Foundation **Feb 2023 – Mar 2023**
DataScience Intern *Virtual*

- Designed and implemented machine learning models to predict Cement Compressive Strength using regression techniques, improving model accuracy through cross-validation and hyperparameter tuning.
- Automated data cleaning processes, reducing processing time by 20 percent and improving overall workflow efficiency. Generated detailed technical reports and presented data-driven recommendations, guiding project stakeholders.

PUBLICATIONS

Facial Recognition Based Attendance System **Oct 2022 – D**
Journal name: INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH IN ENGINEERING.

- Published a paper on a facial recognition-based attendance system utilizing Python, OpenCV, and Tkinter, integrated with a MySQL database for efficient data management.
- Applied machine learning algorithms and feature extraction techniques to enhance facial recognition accuracy, achieving a significant reduction in false positives.
- Performed statistical analysis on model performance metrics, such as precision, recall, and F1-score, improving the system's reliability for large-scale deployment.

CERTIFICATIONS

- AWS Cloud Practitioner Essentials – AWS Training and Cerfitication
- Intro to Data Science – Simplilearn
- Intro to Data Analytics – Simplilearn
- Data Science with Python – Simplilearn
- Intro to Machine Learning – Kaggle
- Intro to Programming - Kaggle

STRENGTHS and ATTRIBUTES

- Strong analytical and problem-solving skills
- Excellent communication and team collaboration
- Eager to learn new tools like Spotfire and domain-specific data processing
- Proactive, detail-oriented, and focused on building scalable, data-driven solution