Santhosh Kumar

Data Science Engineer

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Objective

Aspiring Data Scientist with a strong foundation in Machine Learning, Deep Learning, and Generative AI. Seeking to leverage my skills and experience to contribute to innovative projects.

WORK EXPERIENCE

RamanaSoft Technologies - Data Science Developer Intern

March 2024 – present   Hyderabad, Telangana

RAG Based Chatbot Implementation for Student CRM Application

- This project is a full-stack web application. The Flask backend serves as an API that interacts with a MySQL database using the LangChain library and the OpenAI language model.
- Implemented a Flask API to handle user query processing, and database interactions using LangChain and OpenAI's language model.
- Demonstrated skills in Python, Flask, React.js, MySQL, LangChain, OpenAI, API development, and user authentication.

SmartQuiz: AI-Powered Assessment Tool

- Developed a comprehensive quiz platform using React for frontend and Flask for backend
- Implemented AI-powered answer evaluation using NLP through Ollama API integration
- Created RESTful API endpoints for seamless communication between React UI and Flask server
- Utilized React, Python, Flask, MongoDB, Pandas, and Ollama API for a full stack solution

EDUCATION

Vellore Institute of Technology (VIT University) -Bachelor of Technology,

Computer Science and Engineering (CSE) Specialization in Data Analytics

2019 – 2023   Amaravati, AP

Sri Chaitanya Junior College- Intermediate MPC

2017 – 2019   Visakhapatnam, AP

Narayana High School-10th Class / High School

2016 – 2017   Visakhapatnam, AP

SKILLS

- **Programming Languages:** Python, SQL
- **Data Science:** Generative AI, LangChain, Machine Learning, Deep Learning, NLP, Prompt Engineering, Data Analysis
- **Data Visualization:** Matplotlib, Seaborn, Power BI
- **Databases:** MySQL, MongoDB
- **Frameworks & Tools:** Flask, Streamlit, TensorFlow, Jupyter Notebook
- **Other Tools:** VSCode, GitHub

PROJECTS

Global Data Store Profit Prediction

Analysis & Modeling:

- Pre-processed global store data, addressing missing values, outliers, and feature scaling.
- Applied regression models like Linear Regression, Decision Tree, and Random Forest to predict profit, evaluated through R2_score.
- Tools Used: Python, Jupyter Notebook, Pandas, NumPy, scikit-learn.

Image Classification using Convolutional Neural Network Model

Training:

- Implemented a CNN model to classify images, using TensorFlow and Keras.
- Pre-processed data through rescaling and augmentation techniques.
- Tools Used: Python, Jupyter Notebook, TensorFlow, Keras.

Sentiment Analysis on Product Reviews

Text Analysis:

- Utilized TF-IDF and Count Vectorizer for feature extraction from product reviews.
- Applied classification algorithms to predict sentiment.
- Tools Used: Python, Jupyter Notebook, TensorFlow, Keras, NLTK.

Employee Absenteeism Prediction

Logistic Regression:

- Developed a model to predict employee absenteeism using logistic regression.
- Created Tableau dashboards for visualizing absenteeism patterns.
- Tools Used: Python, SQL, Tableau.

CERTIFICATIONS

- Python for Data Science, AI & Development by IBM
- Supervised Machine learning by Deeplearning.ai

EXTRACURRICULAR ACTIVITIES

- Google Developers Club - VIT AP 2019 Member, actively contributed to the club's activities.
- Non-Academic Sports Activities - Organized and supported various sports events, with a focus on badminton.