Bhaskar Reddy Challapureddy

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Summary

Aspiring Machine Learning Engineer with expertise in AI, Deep Learning, and Data Science. Experienced in building ML models, NLP applications, and deploying AI-driven solutions through hands-on projects. Eager to contribute innovative solutions and grow under experienced professionals in a dynamic ML environment.

Experience

Edureka Oct 2023 – Oct 2024

Associate Research Analyst (6 months) & Intern (6 months) *Bangalore*

- Designed and developed technical training materials and courses on AI, Machine Learning, NLP, and Deep Learning, ensuring high-quality learning resources for professionals.
- Researched and implemented industry-relevant ML and AI concepts, creating hands-on projects and tutorials for learners.
- Created interactive learning modules on Python, TensorFlow, scikit-learn, and NLP frameworks, helping thousands of learners grasp complex ML topics.

Skills

Machine Learning & AI: Supervised & Unsupervised Learning, Deep Learning, NLP, Computer Vision, Model Deployment,
Programming & Frameworks: Python, TensorFlow, PyTorch, Keras, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, NLTK, OpenCV
Data Engineering & Cloud: SQL, NoSQL (MongoDB), Hadoop, Spark, AWS, GCP, Azure, Docker, Kubernetes, Git

Projects

Moodify | Python, TensorFlow, NLP (BERT), Llama-3.3-70B, scikit-learn, Pandas, NumPy, Streamlit

- Developed "Moodify," a mental health assessment app utilizing Python and TensorFlow for real-time sentiment analysis, helping users identify emotional states with 85% accuracy.
- Integrated DeepInfra's Llama-3.3-70B-Instruct-Turbo model to generate personalized, uplifting responses, improving chatbot engagement by 40%, and assisting in mental health self-assessments.
- Employed Natural Language Processing techniques, including BERT embeddings and cosine similarity, to accurately interpret user sentiments and provide contextually relevant support.

AI-Powered Pneumonia Detection | Python, TensorFlow, CNN, OpenCV, scikit-learn, Pandas, NumPy

- Developed a CNN-based deep learning model using TensorFlow, achieving 92.6% accuracy in pneumonia detection from chest X-ray images.
- Processed 5,216 images using OpenCV for advanced image preprocessing and evaluated performance with a Confusion Matrix and Classification Report, achieving 90% precision and 94% recall for pneumonia classification.

CryptoForecasting | Python, TensorFlow, LSTM, scikit-learn, Pandas, NumPy, Streamlit

- Developed a web-based cryptocurrency forecasting system using LSTM, SVR, Decision Tree, and Linear Regression, achieving 88% accuracy and 1.12 RMSE in short-term price predictions.
- Implemented real-time market tracking with Yahoo Finance, PostgreSQL, Pandas, and NumPy, analyzing 5M+ historical data points, and improving model performance by 20% through feature engineering and scaling.

Education

Lovely Professional University, Punjab

Bachelor of Technology in Mechatronics | 2023