Kavali Kranthi Kumar

Hyderabad, Telangana • +91 9505530176 • kavalikranthikumar3@gmail.com
• https://www.linkedin.com/in/kavali-kranthi-kumar-ml-engineer/

ABOUT

Passionate and results-driven Product Development Engineer with a strong background in harnessing cutting-edge technologies to drive innovation in product development. With expertise in Generative AI, Machine Learning, and Natural Language Processing, I thrive in dynamic environments, turning complex challenges into innovative solutions.

SKILLS

Generative AI · LLMs · Deep Learning · Natural Language Processing · Machine Learning · Langchain · LlamaIndex · LLMOps · LLM Prompt Engineering · Rasa (NLU & dialogue flow) · Async · Product Development · Critical Thinking · Problem Solving · Effective Communication · Docker · Kubernetes · Amazon Web Services (AWS) · MLflow · Jenkins · ArgoCD · Python · Design Patterns · Debugging · Load Testing · FastAPI · Flask · Sanic · Kafka · MongoDB · ElasticSearch · Weaviate · Vector Databases

WORK EXPERIENCE

Synopsys • Hyderabad, Telangana, India • 06/2024 – Present
Senior Machine Learning Engineer

- Exploring and creating LLM and machine learning-based rest api applications, including a proof-of-concept for integrating Oracle Digital Assistant into a current platform to improve knowledge and workflow support.

Phenom • Hyderabad, Telangana, India • 06/2021 – 06/2024
Machine Learning Engineer I I

- Collaborated daily with cross-functional teams, including developers, product managers, and quality engineers, to produce high-quality cloud-based AI/ML solutions.
- Development of Natural Language Understanding (NLU) Algorithms using GAI LLMs (Provider OpenAI).
- Led the implementation of a robust question-answering system, leveraging GAI for improved accuracy and efficiency and also, fine-tuned models to deliver precise responses across various domains and use cases.
- Pioneered the development of an automated system to generate question-and-answer pairs by parsing and analyzing data from career sites, URLs, and files.
- Managing Continuous Integration (CI) pipeline using Jenkins and Continuous Delivery (CD) pipelines using tools like Spinnaker and ArgoCD.
- Contributed on development of monitoring, tracking and debugging LLM applications product and also agent development playground with open source tools for LLMs based applications.
- Conversion existing code base to complete async version and played a pivotal role in exploring, analysing, optimizing and enhancing existing machine-learning projects and algorithms.

MedTourEasy • Hyderabad, Telangana, India • 04/2021 - 04/2021
Machine Learning Intern

- Acquired vital skills for a machine learning scientist role, including proficiency in Python programming for supervised, unsupervised, and deep learning. Gained expertise in data preprocessing, model training, performance assessment, and parameter tuning to excel in this field.

The Sparks Foundation • Hyderabad, Telangana, India • 04/2021 - 04/2021

Data Science and Business Analytics

- During my virtual internship at the Sparks Foundation, I conducted data analysis to extract valuable insights, developed informative dashboards, created Machine Learning models, and provided feedback and evaluation to fellow interns.

SwiftAI • Hyderabad, Telangana, India • 07/2020 - 12/2020

Computer Vision and Machine Learning engineering

- During my internships, I immersed myself in deep learning principles and explored various pre-trained models, including ResNet and VGGNet. I specialized in projects related to object classification and detection. Moreover, I became proficient in using software tools such as Spyder, Google Colab, and Jupyter Notebook to support my work.

Goalstreet • Hyderabad, Telangana, India • 05/2020 - 07/2020

Machine Learning with python

- During my internships, I acquired expertise in Python, emphasizing supervised and unsupervised machine learning algorithms. I also refined my abilities in data visualization and data cleaning techniques. As a culmination of my learning journey, I accomplished a practical project using the Turkish Student Assessment dataset.

EDUCATION

Bachelor of Technology - BTech in Electronics and Communication engineering

Vardhaman college of engineering • GPA: 8.89 • 06/2017 - 07/2021

CERTIFICATIONS

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional - Oracle

Deep Learning Specialization – Coursera

Machine Learning Specialization – Coursera

Machine Learning Scientist with Python Track - DataCamp

PUBLICATIONS

Iris recognition based on Gabor and Deep Convolutional Networks

IEEE • 07/2021

Effective Deep Learning approach based on VGG-Mini Architecture for Iris Recognition

Annals of the Romanian Society for Cell Biology • 05/2021