Paladugu Sathwik

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Objective

Proficient in Python (pandas, numpy, matplotlib, NLP) and Java, with certifications in ML, DL, and data science.Experienced in deep learning projects and skilled in problem-solving and communication. Eager to contribute to innovative ML and data science projects.

Experience

AKOSCOWL DOT INVENTIONS PVT LTD May 2024 – October 2024
AI/ML Intern *Hyderabad, Telangana*

- Developed generative AI solutions focused on advanced speech processing technologies using cutting-edge machine learning techniques.
- Implemented containerized AI applications leveraging Docker and Azure ML Studio, enhancing scalability and deployment efficiency of language-related AI models.

OscoLearn (A Division of AKOSCOWL) Sep. 2024 – Oct 2024
Python and Machine Learning Trainer *Hyderabad,Telangana*

- Taught Python programming to aspiring developers, covering both fundamental concepts and advanced features like object-oriented programming.
- Delivered comprehensive training sessions on machine learning, focusing on supervised and unsupervised algorithms, model evaluation, and deployment.

Education

Keshav Memorial Institute of Technology Hyderabad, India
Bachelor of Technology in Information Technology, CGPA: 8.1 *Dec. 2021 – Aug. 2025 (expected)*

SR Junior College Warangal, India
Intermediate in MPC, Percentage: 97.1% *Aug. 2019 – Aug. 2021*

Technical Skills

Languages: C, Python, Java, HTML/CSS, SQL (MySQL)
Technologies/Frameworks/Libraries: Bootstrap, FastAPI, Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn, TensorFlow, Keras, Scrapy, NLTK, PyTorch
DevOps Tools: Azure (Basics), Azure ML Studio, Docker
Large Language Models: LLM Generative AI
Source Control: Git, GitHub
Soft skills: Leadership, Public Speaking, Time Management, Communication Skills, Problem Solving, Attention to Detail

Projects

Azure Databricks AI Agent | Python, Microsoft Azure, Databricks, OpenAI, FastAPI

- Developed a robust AI agent to streamline Azure cloud services, reducing redundant tasks by 70%, significantly enhancing productivity for data engineers.
- Designed three distinct versions (UI/UX, API, and AI-driven) with a modular approach, integrating machine learning pipeline setup, task orchestration, and real-time log monitoring.
- Reduced routine task time by 50%, achieving 90% accuracy in interpreting natural language commands. Improved accessibility for data technicians and reduced the learning curve by over 30%.

Brain Tumor Detection using ResNet-50 | Python, CNN (ResNet-50)

- Designed a deep learning model using ResNet-50 for accurate medical image interpretation.
- Focused on early-stage brain tumor detection and treatment planning.

Retrieval Augmented Generation with Llama2 | VectorDBs, LLM, RAG

- Developed a Retrieval-Augmented Generation (RAG) system using Llama2 to enhance query response accuracy by integrating external knowledge sources.
- Implemented a scalable pipeline with VectorDBs for efficient retrieval, enabling real-time, context-aware content generation.

Acheievements

- Gold Medal in National SpellBee Competition.
- International Mathematics Olympiad - Secured 4865th rank internationally (SOF)
- Merit Certificate from IT Wizard Programming and Productivity.

Extracurriculars

- Play musical instruments and experiment with music composition.
- Play and enjoy the cricket.