Yashi Yadav

Machine Learning Engineer • Data Scientist • AI Enthusiast

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SUMMARY

Machine Learning Engineer and Software Developer with experience in AI/ML models, RESTful APIs, and cloud-native applications. Seeking an entry-level position to leverage diverse skills in AI, ML, and software engineering.

SKILLS

Languages: Python, Java, C++, JavaScript (React.js/Node.js)
AI/ML: TensorFlow, NumPy, Pandas, NLTK**,** PyTorch, scikit-learn
Cloud & DevOps: Microsoft Azure, Docker**,** Kubernetes, GitOps, ArgoCD, Git, Gitea
Web Dev: FastAPI, RESTful APIs, Microservices
Data & Databases: SQL, MongoDB, PostgreSQL, PowerBi
Specializations: Deep Learning, Natural Language Processing, Data Analytics

EDUCATION

Master of Science in Computer Science   **December 2024**
Purdue University, Fort Wayne, IN
Relevant Coursework: Applications of Deep Learning, Database Design and Systems, Analysis of Algorithms

Bachelor of Science in Computer Science   **May 2023**
Purdue University, Fort Wayne, IN
Minor: Mathematics
Awards: Dean's and Semester's Honors List 2021, 2022 | Top 50 Award Recipient | Honor's Pin recipient, 2022

RESEARCH EXPERIENCE

Graduate Research Assistant   **August 2023 - Present**
Purdue University Fort Wayne, IN
- Designing and implementing a deep learning model for steganographic applications using TensorFlow
- Incorporating Discrete Wavelet Transform (DWT) for enhanced data hiding in images
- Developing custom layers and loss functions to optimize model performance
- Creating a comprehensive pipeline for dataset preprocessing, model training, and evaluation
- Working on developing a novel DWT-based database to optimize the training process

PROFESSIONAL EXPERIENCE

Software QA Intern   **May 2024 - Present**
Nokia, Sunnyvale, CA
- Developed RESTful API using FastAPI for XR Edge Cloud management, implementing CRUD operations and ArgoCD integration
- Engineered backend system for network resource management using Kubernetes custom resources and Gitea
- Implemented error handling and logging in microservices architecture, enhancing system reliability
- Developed AI model deployment POC in microservices architecture
- Implemented FAISS-based vector database, reducing query time by 60%
- Created NLP scripts for network log analysis, speeding up issue identification by 30%

D365 Developer Intern   **May 2022 – August 2022**

Vera Bradley, Roanoke, IN

- Enhanced Microsoft Dynamics 365 by resolving ITR/Bugs backlogs, improving the overall ERP system.
- Designed Power Automate Flows for alerts on 24 critical Batch Jobs in D365, improving system responsiveness and error handling.

PROJECTS

Adaptive Reading Companion (ARC)   **Present**

- Creating a Chrome extension to enable bionic reading for people with Meares Irlen syndrome
- Implementing features for font customization, background color changes, focus mode, and text-to-speech
- Planning to incorporate vocabulary assistance using NLP techniques

Jerry: The Virtual Assistant   **Present**

- Creating a virtual assistant that uses ChatGPT's API for communication and answering user queries
- Implementing voice recognition for user interaction
- Integrating Google's API for web search capabilities

Binary Classification of Hateful Speech on Social Media   **January 2024 – May 2024**

- Developed a scalable content moderation system using CNN, GloVe-enhanced CNN, and fine-tuned BERT models
- Achieved 93.50% accuracy with the BERT model in classifying harmful content across a dataset of 450,000+ sentences
- Implemented an efficient matching algorithm to assign content to the most suitable classification model based on complexity

ASL Recognition   **August 2023 - December 2023**

- Developed a deep learning model for American Sign Language (ASL) recognition in live and uploaded videos
- Implemented the model as part of a web application for ASL recognition

CERTIFICATIONS

- Neural Networks and Deep Learning - DeepLearning.AI (2023)
- Improving Deep Neural Networks - DeepLearning.AI (2023) \
- AWS DeepRacer: Reinforcement Learning - LinkedIn (2023)
- MLOps Essentials: Model Development and Deployment - LinkedIn (2023)

ACTIVITIES

Lead Instructor, Drone Camp, Purdue University Fort Wayne   **June 2023 - August 2023**

- Led a team of 5 CS students to successfully design and execute the Drone Camp program
- Developed a Python-based curriculum for drone programming, covering topics such as obstacle avoidance and path optimization
- Mentored 30+ high school students, resulting increased interest in computer science careers