ISHA PATEL

AI/ML Engineer | AI Software Developer

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EDUCATION

University of Georgia	***Georgia, United States***
MS in Artificial Intelligence	08/2022 – 12/2024
Uka Tarsadia University	***Gujarat, India***
MS in Information Technology – Integrated	07/2014 - 06/2019

WORK EXPERIENCE (4+ years of experience)

Model Lab(AI) | University of Georgia   Georgia, United States | 05/2024 – 12/2024

- Researched and implemented transformer-based models (GPT, RoBERTa) to evaluate system similarities.
- Developed machine learning pipelines using PyTorch and Hugging Face to compare system specifications.
- Utilized vector embeddings and cosine similarity to measure requirement overlaps across different systems.
- Analyzed large-scale requirement documents using NLP techniques, improving classification accuracy by 30%.

AI/ML Engineer | Starbyte Infotech   Surat, Gujarat, India | 01/2021 - 07/2022

- Built and optimized machine learning models for client projects using Scikit-learn and TensorFlow.
- Developed data preprocessing pipelines with Pandas and NumPy, reducing feature engineering time by 40%.
- Implemented NLP techniques such as TF-IDF and word embeddings to analyze unstructured text data.
- Deployed AI solutions on AWS using EC2 and Lambda, improving model scalability and performance.

ML App Developer | Escrow Infotech   Surat, Gujarat, India | 05/2019 - 12/2020

- Designed and deployed AI-powered APIs using FastAPI and Flask for mobile and web applications.
- Integrated ML models with mobile applications using TensorFlow Lite and Core ML for real-time inference.
- Developed predictive analytics models for business insights, improving decision-making processes.
- Automated ML model training and monitoring using MLflow, ensuring model performance stability.

Trainee ML App Developer | Escrow Infotech   Surat, Gujarat, India | 08/2018 - 05/2019

- Developed and trained classification models using Scikit-learn and TensorFlow for predictive analytics.
- Processed and cleaned raw datasets with Pandas and NumPy, improving ML model accuracy.
- Gained hands-on experience in integrating AI models into mobile and web applications, enhancing usability.

SKILLS

Programming: Python, JavaScript, Algorithms, Cloud Platforms, Microservices.

AI Frameworks & Tools: LangChain, LangSmith, Hugging Face, Weaviate, VectorStore, Pinecone, CrewAI.

Machine Learning: NLP, LLMs, RAG, TensorFlow, PyTorch, scikit-learn, FastAPI.

Deep Learning: BERT, RoBERTa, Llama, Groq, OpenAI, RNN, ANN, LSTM RNN.

Data Science & Analytics: AWS SageMaker, AWS Bedrock, SQL, Pandas, NumPy, Tableau, Power BI.

Databases & Cloud Services: Neo4j, pgAdmin, Hadoop, AWS, GCP, Docker, Kubernetes, Streamlit, Node.js.

PROJECTS

PGA Analysis - Business Intelligence (Excel, Power BI, Tableau)
Triple Extraction using LLM Model (BERT, Neo4j, Python)
Design Optimal Policy for UAVs in Dynamic MDP (MDP, Reinforcement Learning, Python)
Maze Solving using Real-Time Robot (Python, Robotics)
Fruit Prediction (Data Mining, Machine Learning, Python)

PUBLICATION

"Optical Character Recognition using Deep Learning", National Journal of System and Information Technology, June 2018, vol. 11, no.1, pp. 55-66, 0974-3308.

CERTIFICATION

Developing Application in Python**(AWS)**, Generative AI Engineering with LLMs**(IBM)**, Complete Gen AI Course with LangChain and Huggingface**(Udemy),** Complete python bootcamp from zero to hero in python**(Udemy).**