

SHIVALIK SINGH

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PROFESSIONAL SUMMARY

AI/ML Engineer with hands-on experience in deep learning, computer vision, and ML model deployment. Skilled in developing intelligent systems using PyTorch, Langchain, and end-to-end pipelines. Proven ability to solve real-world problems and deliver scalable AI solutions.

EDUCATION

Jaypee University of Information Technology, Solan
Bachelor of Computer Science and Engineering
Cambridge International School
Cambridge International School

CGPA: 7.4
Minors: Machine Learning
Class 12 (2021): 81%
Class 10 (2019): 80%

TECHNICAL SKILLS

Languages: Python, C++ , JavaScript
ML Tools: OpenCV, Numpy, Pandas, Matplotlib, Hugging Face Transformers, Langchain
Deployment: Docker, Flask, FastAPI
Cloud: AWS (S3, EC2), GCP
Data Handling: SQL, MongoDB
Others: Git, REST APIs, Postman, PowerBI

WORK EXPERIENCE

KATBOTZ LLC

AI/ML Intern

May – July 2024
Python, SQL, PowerBI

- Built a CFO dashboard with predictive KPIs using regression and time-series models.
- Used PowerBI and SAP Analytics to create dynamic business insights from structured data.
- Developed scripts for automating financial report generation using Python.

PROJECTS

YouTube RAG AI Assistant [GitHub Link](#)

Python, Node.js, LangChain, Gemini API, Browser Ext.

- Developed a full-stack browser extension integrating a Retrieval Augmented Generation (RAG) pipeline for AI-powered Q&A and summarization of YouTube video transcripts.
- Implemented dynamic in-memory caching of vector stores and LLM context, with automated invalidation upon video change or extension closure for optimized performance.
- Engineered seamless inter-process communication between the JavaScript-based browser frontend and Python-based AI backend, handling real-time video context.

Deepfake Detection System [GitHub Link](#)

PyTorch, LSTM, CNNs

- Developed a video classification pipeline using ResNeXt50 and LSTM layers.
- Achieved 98% accuracy on benchmark datasets.
- Engineered data loaders and batch processing for video sequences.

Autonomous Navigation Simulator [GitHub Link](#)

Python, NumPy, Neural Nets

- Created a lane-based AV simulation system with neural network control.
- Implemented real-time sensor fusion and collision detection.
- Integrated evolutionary algorithms for learning optimal paths.

YouTube Clone [GitHub Link](#)

Node,Express, MongoDB, JavaScript,JWT

- Developed a backend that emulates the youtube platform
- Integrated subscription and subscriber schema into the platform.
- Seamless with JWT, OAuth and cookies for access and security.

CERTIFICATIONS

- The Nuts and Bolts of Machine Learning – Google
- AWS Cloud Fundamentals
- SQL for Data Science – IBM
- Complete JavaScript Course 2024: From Zero to Expert