Nihal akndo

SOFTWARE ENGINEER

Contact

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Skills

pyQt
automation
web scraping
Machine Learning (ML)
Computer Vision (CV)
Natural Language Processing (NLP)
Model Training & Fine-Tuning
Prompt Engineering & AI Automation
React Native
Firebase

Languages

Language	Proficiency
English	100%
Bengali	100%
python	90%
c	70%
c#	25%

About me

Passionate AI and full-stack developer with a strong Python, machine learning, and web development foundation. I specialize in building AI-driven applications, working with large language models, and developing full-stack solutions. Experienced in training and fine-tuning models, implementing computer vision, and creating automation tools. I enjoy solving complex problems, optimizing systems, and bringing innovative ideas to life through technology. Always eager to learn, experiment, and build impactful projects.

Experience

AI Voice Assistant

Built a voice-controlled AI assistant using GPT-4All, FastAPI, and ESP32. Integrated text-to-speech and wake-word detection for hands-free interaction.

LLM-Powered Search Engine

Developed a search tool using FAISS, Hugging Face models, and LangChain to provide AI-enhanced search results with semantic understanding.

Real-Time Sign Language Translator

Developed a real-time sign language translator using OpenCV and TensorFlow to convert ASL gestures into text. Trained a deep learning model for accurate recognition, enhancing accessibility for deaf and non-deaf communication.

Automated News Summarizer

Designed a web scraper using BeautifulSoup and NLP techniques to fetch, summarize, and display daily tech news in a concise format.

Quote Sharing Mobile App

Developed a mobile app using React Native and Firebase to display and manage user-generated quotes, featuring real-time updates and cloud storage.

Education

self-taught dev
2022–2025
currently learning

- In-depth Machine Learning: Focusing on advanced algorithms, model optimization, and reinforcement learning
- Data Structures & Algorithms (DSA): Mastering core DSA concepts (graphs, dynamic programming, trees, etc.) for competitive programming and technical interviews
- Database Management: Learning advanced database concepts and techniques to efficiently manage large-scale data systems