SANJEET KUMAR

JR. SOFTWARE DEVELOPER

CONTACT

8800702549

sanjeetkr987152@gmail.com

Gurgaon Haryana India

LinkedIn

EDUCATION

DPGITM

2017 - 2021

- BTECH. CSE

SKILLS

- Python
- Flask
- JWT
- Numpy, Pandas, Opencv
- Selenium, Beautifulsoup
- Javascript
- AI Agents / LLMs
- FastAPI
- Retrieval-Augmented Generation
- Docker
- MongoDB
- SQL
- Supabase
- Linux/Ubuntu

LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- Haryanvi (Intermediate)

PROFILE

Jr. Software Developer with over 3 years of experience in developing robust software solutions across various technologies. Proven ability to work with a core development teams, under all circumstances. Recently initiated and currently working with AI-focused team, developing intelligent agents and machine learning models. Adept at problem-solving and committed to delivering innovative and efficient software solutions.

WORK EXPERIENCE

Kan Innovation Pvt. Ltd.

Jr. Software Developer 2023 JUNE - PRESENT

- Played a lead role in software development team to successfully deliver a critical project for the Central Leather Research Institute of India, a governmental initiative, enhancing the company's reputation in the industry.
- Developed a comprehensive image data extraction module using web scraping , successfully extracting over 4.6 lakh images to create the foundational dataset for machine learning model training.
- Initiated and managed the formation of an AI-focused team, leading to the successful development of a Retrieval-Augmented Generation (RAG) AI agent, expanding the company's capabilities in artificial intelligence.
- Implemented professional standards and optimized workflows within the software development team, resulting in improved efficiency and adherence to best practices in software development and maintenance.
- Integrated IIT Bombay's Startup Device called vibrasense with our in house software for better diagnosis of diabetic patients. Used Bleak python library to communicated with this edge device.
- Lead the second version of Dime2XD device. Which assist doctors to capture more accurate planter surface image with dorsal front and rear view. Along with patient weight. For more precise treatment of diabetic patients.
- Founding engineer of human posture test project. Using mediapipe, Opencv, And YOLO model.
- Worked with websockets from backend flask to unity game. Identified the producer consumer issue and fixed it with queue clearing by doing smart sampling.

Software Developer Intern. 2022 Dec - 2023 June

Kan Innovation Pvt. Ltd.

- As a Founding Software Developer for "Dime – Automated Foot Imaging for Diabetic Care," I built a Flask backend with pyinsane2, automating high-resolution plantar image capture and foot metric extraction using OpenCV, NumPy, and MongoDB.
- Dime system enhanced diagnostic efficiency by approximately 60% and facilitated the creation of a high-quality ML dataset with over 1,000 annotated foot scans daily.
- Worked with various camera modules and integrated them with our software. Fish eye camera calibration.

Projects

Vidur AI - AI Agent Development

Tech Stack: n8n, Pydantic, Supabase, OpenAI, DeepSeek

- Developed Vidur AI, a RAG agent that enhances data processing by integrating internal documents and research papers as embeddings, improving response accuracy.

- Engineered an automated workflow using n8n with webhooks to efficiently handle data exchanges between internal applications and the AI system.
- Optimized data processing by implementing Pydantic for validation and fine-tuning system prompts, resulting in enhanced response accuracy.
- Integrated Supabase as a vector database to securely store and manage AI embeddings derived from proprietary documents.
- Evaluated various Large Language Models (LLMs) from OpenAI and DeepSeek to identify the most effective model for the project's objectives.
- Played a crucial role in seamless integration of Vidur AI within existing software infrastructure, collaborating with cross-functional teams to align with business goals

BLE (Bluetooth Low Energy) Device Integration

Tech Stack: Python, Flask, JavaScript

- Conducted extensive research on Neurotouch, a BLE device, understanding its GATT characteristics.
- Utilized Bleak library with Python for connection, ensuring accurate data retrieval.
- Implemented data processing, acknowledgment mechanism with Flask and JavaScript, integrating results into reports for enhanced visualization and analysis, collaborating with the team to meet key metrics.

Dime.AI

Tech Stack: Python, Flask, JavaScript, Opencv , Matplotlib, Pandas, Rembg

- Real Time planter high resolution image capturing device. Which Help doctors to analyses corn, callus.
- Trained AI model to predict the future possible corn or callus.
- Implemented foot outline for shoe makers to make custom shoes for diabetic patients.
- Length and width of the foot is calculated in this device.
- Used Opencv, numpy , rembg, to perform all the post processing part.
- Pyinsane2 library was used to communicate with the imaging device.
- It is installed in more than 300+ clinics and in big hospitals, like jupyter hospital thane, yashoda medicity indirapuram ,