

HARSH KUMAR BANKA

Chennai, India

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Education

SRM Institute of Science and Technology | 8.8

Sep. 2022 – May 2026

Bachelor of Technology in Computer Science and Engineering

Chennai, India

Experience

National Institute of Technology Trichy

May. 2024 – Jul. 2024

Research Intern

Tiruchirappalli, India

- Developed HRNet model for pose estimation to monitor infant motor skill development using the FiDIP methodology.
- Created workflow to estimate movement of children using predicted key-points of individual frames.

EmendoAI

Oct. 2024 – Present

AI/ML Engineer

Hyderabad, India

- Developed a multifunctional AI agent using chain-of-thought methodology, enabling dynamic interaction across cloud services for comprehensive querying, decision-making, and automated task execution.
- Optimized serverless architecture using AWS Lambda, RDS Aurora, and Langsmith, reducing system latency by 80% and implementing an automated GitHub Actions evaluation engine for continuous performance tracking.

TrainingMug

Jul. 2024 – Oct. 2024

AI/ML Intern

Hyderabad, India

- Deployed face, voice recognition, and plagiarism check models for AI-based interviews.
- Built pipelines for generating analysis reports and deployed systems on Azure.

Alexa Developers SRM

Nov. 2022 – Present

Technical Lead

Chennai, India

- Developed event management service with Express and trigger.dev, automating registration and communication.
- Built club website using Next.js and Sanity, creating interactive user experience with modern animations.
- Contributed to AlexaTree open-source project through API documentation and team technical mentorship.

Data Science Community SRM

Nov 2022 – Present

Vice-President

Chennai, India

- Implemented ML models using random forest algorithm resulting in a 40% increase in performance compared to previous LSTM-based approach for AI Chrome extension for validation of links.

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C/C++, HTML/CSS, MATLAB

Software Development: NodeJs, Express, React, NextJs, SpringBoot, FastAPI, Flask, Django, Sanity, MongoDB, SQL, Redis, Docker, AWS, Microsoft Azure

AI/ML: TensorFlow, MLFlow, ZenML, Numpy, Pandas, Data Analysis, Model Development, MLOPs

Environments: Linux, Windows

Projects

News Insights: Geo-Temporal Keyword Analysis | 🐙 [LordHarsh/news-bug](https://github.com/LordHarsh/news-bug)

PyTorch, NextJs, Appwrite

- Engineered ML-driven news analysis pipeline using OCR, NLP, and Named Entity Recognition to extract and visualize geo-temporal trends from digital newspapers.
- Developed full-stack web application with React and FastAPI to enable interactive geospatial data exploration of automated news insights.

Neural Style Transfer | 🐙 [LordHarsh/Neural_Style_Transfer](https://github.com/LordHarsh/Neural_Style_Transfer)

Python, TensorFlow

- Created Python library for style transfer on videos by extracting frames from video and applying style transfer.
- Used pre-trained model from TF Hub based on Fast Style Transfer algorithm by Gatys et al. in 2016.

Armando IOT | 🐙 [LordHarsh/armando-iot-backend](https://github.com/LordHarsh/armando-iot-backend)

Typescript, NodeJs, Express

- Developed backend systems for automation, using MongoDB to store user data, appliance details, and preferences.
- Integrated LLM for controlling devices through natural conversation, enhancing user interaction.
- Implemented a facial recognition tool to automate devices based on user preferences.

Achievements

1st Place in CodeFest Hackathon by SRM Technologies

February 2024

Project- AuthentiCheck Interview System

SRMIST

1st Place in DigiZest Hackathon

September 2023

Project – Armando IOT

SRMIST