

VIJAY MAKKAD

Chennai, Tamil Nadu

📞 +91-7894205764 ✉ vijaymakkad0104@gmail.com 🔗 [linkedin.com/in/vijay-makkad](https://www.linkedin.com/in/vijay-makkad) 🌐 github.com/VijayMakkad

EDUCATION

SRM Institute of Science and Technology

Bachelor of Technology - Computer Science and Engineering

September 2022 – May 2026

CGPA: 9.71/10.0

PROFESSIONAL EXPERIENCE

Samsung Prism

Research Intern | Certificate

June 2024 – January 2025

Chennai, India

- Architected **CNN**-based action recognition system using **MovieNet** framework, processing compressed video formats
- Achieved **97%** training accuracy and **92%** validation accuracy on **UCF101** dataset across **H.264**, **MPEG-4**, **HEVC** codecs
- Co-authored research paper "Compressed Video Action Recognition" submitted to **ICACECS 2025** conference
- Optimized model inference speed by **35%** through efficient data preprocessing and batch processing techniques

Jindal Steel and Power

Software Developer Intern | Certificate

June 2024 – July 2024

Angul, Odisha

- Engineered full-stack web application serving **500+** users with **React.js** frontend and **Spring Boot** backend
- Designed **MySQL** database schema and **RESTful APIs**, reducing data retrieval time by **40%**
- Implemented **JWT**-based authentication system with role-based access control for **3** user types

TECHNICAL PROJECTS

SpeakEasy - Real-time Voice Translator | **React Native**, **Node.js**, **Python** | [GitHub](#)

April 2024

- Built cross-platform mobile app with **95%** speech recognition accuracy using **Google Speech-to-Text API**
- Integrated translation pipeline supporting **100+** languages with **98%** translation accuracy via **Google Translate**
- Deployed **Node.js** backend with real-time audio processing, serving **1000+** translation requests daily

AI Text Summarization Platform | **FastAPI**, **HuggingFace**, **React.js** | [GitHub](#)

February 2024

- Developed abstractive summarization service using fine-tuned **BART** model with **95% ROUGE** score accuracy
- Built **FastAPI** backend with **GPU** optimization, achieving sub-**3 second** response times for **10,000+** character inputs
- Created responsive **React.js** interface with real-time processing indicators, reducing user bounce rate by **25%**

Emotion Recognition System | **TensorFlow**, **Flask**, **React.js** | [GitHub](#)

November 2023

- Trained deep learning model achieving **97.6%** test accuracy on facial emotion classification using **CNN** architecture
- Deployed **Flask API** with real-time image processing capabilities, handling **100+** concurrent requests
- Integrated webcam functionality with **React** frontend, enabling live emotion detection with **200ms** latency

TECHNICAL SKILLS

Programming Languages: C++, Java, Python, JavaScript, TypeScript, SQL, HTML5, CSS3

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Flask, TensorFlow, PyTorch,

Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, Flask, OpenAI, Keras

Databases & Tools: MongoDB, PostgreSQL, MySQL, Docker, Postman, Git, AWS, HuggingFace

ACHIEVEMENTS & CERTIFICATIONS

- Secured **1st Place** in **Techknow 2023** Technical Competition among **200+** participants [Certificate](#)
- Maintained **1600+** rating on **LeetCode** with **250+** algorithmic problems solved, ranking in top **15%**
- Research Publication: "Compressed Video Action Recognition" submitted to **ICACECS 2025** conference
- **AWS Machine Learning Foundations** Certification [Certificate](#)
- **GitHub Foundations** Certification [Certificate](#)