

PEDDIREDDY KOWSHIK

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Education

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai

2021-2025

B.Tech in Computer Science & Engineering

9.5/10 CGPA

Work Experience

Data Science Intern at TONIK FINANCIAL INDIA PRIVATE LIMITED

May 2024 – July 2024

Automatic Speech Recognition: Implemented a high-accuracy speech-to-text model.

Noise Reduction: Implemented techniques to minimize background noise in audio.

Voice Activity Detection: Implemented a system to detect and isolate voice activity in audio streams.

LLM Fine-tuning: Fine-tuned large language models for domain-specific tasks.

Projects

GREEN AI INDEX(Co2 Emissions)

Technologies Used: Flask, API, ResNet50, Python, JavaScript, TensorFlow, Pytorch, Seaborn, Pytext

Comprehensive green computing platform integrating waste classification, energy profiling, travel emissions analysis, and code optimization for eco-conscious decision-making

JOB FLOW COMPANION

Technologies Used: Deep Face, NLP, Speech Recognition, Cosim, Spacy, Web Scrapping, CountVectorizer, Flask, API, Python, JavaScript, TensorFlow, Pytorch

A multifaceted Resume and Job Recommendation System featuring mock interview simulations, emotion detection, and speech recognition for enhanced candidate assessment and job matching.

BANKING SYSTEM

Technologies Used: JSP, Servlets, JDBC, Tomcat9

A Secure web-based banking application facilitating customer registration, account management, and transactions, with comprehensive administrative control over user details.

EMPLOYEE TIME TRACKER

Technologies Used: JSP, Servlets, JDBC, Tomcat9

Advanced task management system featuring employee and admin logins. Employees can view, add, and modify tasks with dynamic visualization through pie and bar charts. Admins have oversight of all employee tasks for efficient management.

WILDLIFE GUARDIAN

Technologies Used: CNN, Flask, API, Python, JavaScript, TensorFlow, Pytorch

Innovative platform for wildlife species detection, forest fire information, sanctuary details, and animal voice detection with chatbot interaction.

FACE RECOGNITION AND ATTENDANCE MANAGEMENT

Technologies Used: HaarCascade, yagmail, Opencv, Pillow

Implemented a face recognition system for automated attendance management, with email notification functionality.

Technical Skills

Languages: Java(Core),Java(OOPS), Java EE, Python, C, JavaScript, TypeScript

Technical: Machine Learning, Deep Learning, Data Science, Data Visualization, Natural Language Processing

Backend: Servlet, JSP, JDBC, PHP, Node.js, Express.js

Frontend: HTML, CSS, Bootstrap

Databases: MySQL, MongoDB

Application Server Technologies: IIS, Apache Tomcat, Flask, Django

Developer Tools: PyCharm, VS Code, GitHub, Eclipse, CoLab

Generative AI: RAG pipeline, LLM Finetuning, Lang Chain

Achievements and Certifications

Presented Idea at SDG, IIT MADRAS, World-Wide Hackathon

Presented Idea at **Smart India Hackathon** for Medicinal Plants

Secured **First** in National level Symposium by Velammal Engineering College

Secured **First** in DataQuest'24 for building ML model in one day by School Of Computing

Secured **Second** place in Codeathon a Coding Contest for competitive programming by Vel Tech University

Secured **Second** in WEB-a-thon for building web application in one day by School Of Computing