

Parinil Kala

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EDUCATION

Vellore Institute Of Technology, Bhopal, MP

B.Tech in Computer Science With Artificial Intelligence And Machine Learning

Sept 2025

Relevant Coursework:

- Data Structures and Algorithms, Introduction to Computer Networks, Fundamentals Of AI and ML, Deep Learning, Fuzzy Logic.
- Probability and Graph Theory, Concepts of Mathematics, Calculus.
- Computational Linguistics, Data Visualization.

WORK EXPERIENCE

Radical AI · Internship

AI Engineer Intern

New York, United States · Remote

June 2024 - Oct 2024

- Collaborating on AI-powered features for the RadicalX platform
- Enhancing the AI Dev Manager powered by GPT-4
- Researching and implementing innovative AI solutions to improve user experience
- Working with cutting-edge technologies like OpenAI, TensorFlow, Botpress, and Inworld.ai
- Developing personalized learning algorithms and anti-fraud detection systems

Skills: Artificial Intelligence (AI), Model Evaluation, Model Training, API Testing

PROJECTS/RESEARCH

ChatBot Recommendation Music System- Website

- Implemented IBM watson for Natural Language Processing in the chatbot recommendation system.
- Conducted API testing and assessed user tone to ensure accuracy.
- Developed RESTful APIs for seamless integration with the frontend.

Fretboard To Strings: Real Time Guitar Song Recognition System - Website/Android App

- Handled System Architecture, Algorithm Refinement, Machine Learning Integration and refined Neural Network Architecture for seamless training.
- Utilized Computer Vision Module for real time data acquisition and built a responsive User Interface and preprocessed the noisy data.
- Hosted on AWS cloud for optimal performance.

Traffic Detection Violation System- Tkinter Python Module

- Utilized Yolov5 and Tkinter module for accurate and fast classification of images from videos.
- Displayed outcomes on a well-defined GUI, showcasing UI/UX skills.

Advanced NLP and Deep Learning Model for Judicial Outcome Prediction and Case Analysis(Research Paper)

- Led research on legal decision prediction using machine learning and the Indian Legal Documents Corpus (ILDC), achieving 77% accuracy with XGBoost algorithm
- Developed multilingual NLP solution to process diverse legal texts across jurisdictions, incorporating SHAP values for model interpretability
- Conducted comparative analysis of ML algorithms (XGBoost, Naive Bayes, SVM, k-NN) for legal outcome prediction and designed interactive dashboard for legal professionals
- Successfully addressed challenges in dataset irregularities, linguistic diversity, and jurisdictional variations while maintaining ethical considerations

CERTIFICATIONS AND ACHIEVEMENTS:

SIH (Smart India Hackathon)

Bhopal, MP

- *Finalists For Local Chapter(Round 3), VITB*

2023 - Present

Regulated and maintained the training model and architecture for a community based repo, improved further upon the inconsistencies.

AWS Certified Cloud Practitioner

- Successfully achieved AWS Certified Cloud Practitioner certification, demonstrating the proficiency in AWS services and cloud computing fundamentals.

Feb 2024 - Feb 2027

AWS Certified Solution Architect

- Successfully achieved AWS Certified Solution Architect certification.

Feb2024 - Feb 2027

TECHNICAL SKILLS:

- Programming Languages: Python, JavaScript.
- AI/ML: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Neural Networks.
- Frameworks & Libraries: TensorFlow, PyTorch, OpenCV.
- Cloud Computing: Amazon Web Services (AWS).
- Other: RESTful API Development, NoSQL Database Design, RDBMS Design and Optimization, Model Evaluation, Pattern Recognition, Statistical Analysis, Problem Solving.

ADDITIONAL INFORMATION:

- Actively learning and exploring OpenAI technologies to enhance AI development skills
- Passionate about applying AI to solve real-world problems and drive technological innovation