

KANISHK VIJAY A T

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Education

Vellore Institute of Technology AP

Sept 2022 – Jul 2026

Bachelor of Technology in Computer Science

CGPA: 9.29

Summary

Motivated 3rd-year BTech student with expertise in Artificial Intelligence, Machine Learning, and Generative AI. Passionate about driving innovation in NLP and Computer Vision algorithm development.

Experience

AI/ML Intern

Jul 2024 – Sep 2024

Yavar Tech Works Private Limited, Coimbatore

- Engineered advanced **text-to-speech (TTS)** and **speech-to-text (STT)** solutions, impacting **100+ users** and enhancing user experience by **30%**. Led research on **privateGPT** and **Ollama** for a virtual assistant. Gained in-depth knowledge of open-source technologies and their strategic importance in a startup environment.
- Worked **1 month** onsite and **2 months** remotely, developing professional connections and acquiring soft skills in communication, adaptability, and teamwork.

AI Engineer Intern – Project Link

Jun 2024 – Jul 2024

INTRAIN TECH, Bengaluru

- Developed and deployed an e-learning platform with an automated interview bot using **LLMs**, **NLP**, **STT**, and **TTS** technologies on a **Hostinger VPS Ubuntu** server, reducing manual intervention by **80%**. Implemented features like a vocal interview bot, resume parsing, master classes, and 24/7 AI assistance, integrating the user interface with **HTML**, **CSS**, and **JavaScript**, boosting user engagement by **30%**.
- Managed the full project lifecycle, from development to maintenance, collaborating with a team of **5 members** to complete the project **20%** ahead of schedule, effectively balancing technical tasks and non-technical coordination for a successful and scalable solution.

Technical Skills

Programming Languages: Python, Java, SQL, TensorFlow, PyTorch.

Technical Skills: Machine Learning, Deep Learning, Natural Language Processing, Data Structures and Algorithms, Large Language Models, Neural Networks, Generative AI, Object-Oriented Programming.

Tools and Software: Unix/Linux, Flask, GIT, Github, Docker, AWS (Amazon Web Services) Cloud Services.

Soft Skills: Problem Solving, Research, Critical Thinking, Collaborative, Communication.

Projects

Cyberbullying Detection System Using Deep Learning

- Implemented a deep learning-based cyberbullying detection model utilizing **RNN**, **LSTM**, **GRU**, and **BERT** for feature extraction, processing over **200,000 text samples**. Tested and validated the model using classifiers like **RandomForest Classifier**, **XGBClassifier**, and **LogisticRegression**, achieving an accuracy of **92%** across multiple platforms.
- Achieved significant detection improvements through advanced **NLP techniques**, model training, and hyperparameter tuning, independently completing the project over a span of **6 months**.

Movie Recommendation System

- Built a personalized movie recommendation system for **5,000+ movies** using **collaborative filtering**, **content-based filtering**, and **matrix factorization**, with a **15% accuracy improvement** via **cosine similarity**. Developed in **Python** with **Pandas**, **Scikit-learn**, **Numpy**, and deployed using **Streamlit**, with a **response time of under 2 sec**.
- Led a team of **10 members** to deliver the project in **6 weeks**, boosting efficiency by **20%** through effective collaboration and project management.

Online Courses and Certifications

- Achieved the **IBM Machine Learning Professional Certificate** from **Coursera**, a comprehensive training program that includes Exploratory Data Analysis, Supervised Machine Learning (Regression and Classification), Unsupervised Machine Learning, Deep Learning, Reinforcement Learning, and a Machine Learning Capstone.
- Certified in **Natural Language Processing by DeepLearning.AI** through **Coursera**, proficient in classification, vector spaces, probabilistic models, sequence models, and attention mechanisms. Experienced in text generation, machine translation, sentiment analysis, summarization, and question answering.

Achievements

- Ranked among the **top 15** in university coding leaderboard on **GeekforGeeks**
- Reached the final phase of **Amazon Smbhav Hackathon**, building a platform to optimize global **SMB** operations using **Generative AI**.
- Organized and led weekly **AI** and emerging tech workshops as a technical team member of the **Computer Society of India**, increasing club participation by **30%** with consistent **50+** student attendance.