

Balasri Nitin Reddy **Vanipenta**

COMPUTER SCIENCE, AI & ML STUDENT · DEDICATED TO INNOVATING AND MAKING AN IMPACT

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“Believe you can, persevere, and you’re halfway there.”

SUMMARY

I am currently pursuing my B.Tech. in Computer Science with a specialisation in Artificial Intelligence and Machine Learning at Gokaraju Rangaraju Institute of Engineering and Technology, located in Hyderabad, India. I started my degree in December 2020, and I am currently in my third year.

I have a strong grip on data structures, enabling me to effectively tackle real-life problems and devise efficient solutions. My areas of greatest proficiency revolve around machine learning, deep learning, and artificial intelligence, and I have successfully contributed to various projects in these domains. Furthermore, I possess extensive knowledge and expertise in cybersecurity, with a focus on penetration testing, which allows me to effectively identify vulnerabilities and protect systems from potential threats. I take great pride in my robust academic background, which encompasses a breadth of programming knowledge, and my substantial contributions to various projects.

Through my experiences, I have not only honed my technical skills but also cultivated strong leadership and interpersonal abilities. I am particularly adept at applying my problem-solving skills to real-world scenarios, where I can analyse complex challenges and develop innovative solutions. I am highly motivated to leverage my expertise in artificial intelligence and machine learning to drive advancements within the academic community and make a significant impact in this field.

EDUCATION

GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY (GRIET)

Hyderabad, India

B.TECH IN COMPUTER SCIENCE AND ENGINEERING WITH SPECIALIZATION IN AIML

Dec. 2020 - May. 2024

I began my undergraduate journey in December 2020, embarking on a transformative educational programme that will culminate in 2024. Throughout this rigorous curriculum, I have immersed myself in a diverse array of intellectually stimulating subjects that encompass cutting-edge domains, including: Artificial Intelligence • Computer Networks • Computer Organization • Data Structures • Data Warehousing & Data Mining • Database Management Systems • Design & Analysis of Algorithms • Operating Systems • Web Technologies

WORK EXPERIENCE

AAC - Advanced Academic Center

GRIET, Hyderabad, India

CORE COMMITTEE MEMBER, STUDENT MENTOR

Jan. 2021 - Present

- Engaged in numerous Machine Learning and Deep Learning projects as an active student member, showcasing a deep commitment to practical application and hands-on experience in the field.
- Took on the responsibility of imparting knowledge in Machine Learning (ML) and Deep Learning (DL) to fellow junior classmates.
- Served as a guide, offering comprehensive instruction and guidance on various ML and DL concepts with dedication and enthusiasm.
- Actively participated in numerous Machine Learning and Deep Learning projects as a student mentor, aiding in understanding and implementing complex algorithms and techniques.
- Held multiple roles within the academic community, including a student member, mentor, and Core-committee member of the Public Relations wing of the Advanced Academic Center (AAC).
- Fostered a supportive learning environment and contributed to the growth of aspiring individuals.
- Cultivated and strengthened interpersonal and leadership skills through involvement in various capacities.
- Created a positive impact on peers, inspiring them to further explore the fascinating fields of ML and DL

PROJECTS

TEXT2AV - Text To Audio And Video

GRIET, Hyderabad, India

MACHINE LEARNING, DEEP LEARNING, ARTIFICIAL INTELLIGENCE

Feb. 2023 - Apr. 2023

- The project’s objective is to build a machine learning-based system that can convert text to audio and text to video based on input from the user.
- The system analyses the text and generates high-quality audio using a Text-to-Speech (TTS) model and natural language processing (NLP).
- The system recognises the key words in the supplied text input and employs diffusion models to produce high-quality video content.
- I was in charge of developing a complex ML model for text to audio and text to video using a variety of ML techniques and diffusion models.

I-FARM - Technology For Better Yield 🌍

AAC, GRIET, Hyderabad, India

MACHINE LEARNING, DEEP LEARNING

Jun. 2021 - Sep. 2021

- A web application that uses the power of ML and DL to assess trends in the agriculture domain
- It is a farm management system based on information and technology that locates, analyses, and controls variability in fields by carrying out crop production practices at the proper time and place for maximum profitability, sustainability, and protection of the land resource.
- Additionally, similar to Uber, our ground-breaking online platform links farmers with farm experts, with the added convenience of a chatbot.
- I was in charge of developing the deep learning model that classifies the crop's health based on pictures of its leaves and developing our innovative online platform, which includes a chatbot for added convenience, to connect farmers with farm experts.

SKILLS

PROGRAMMING

OVER 5000 LINES:

Java • Python • Ruby • Javascript • C# • Matlab • C • C++ • Latex

FAMILIAR

Deep Learning • Machine Learning • NLP (Natural Language Processing) • Artificial Intelligence • Computer Vision • Transformer • Capsule Networks • Attention Mechanism • Variational Autoencoders (VAE) • Reinforcement Learning • Graph Neural Networks (GNNs) • Generative Pre-trained Transformer (GPT) • Deep Reinforcement Learning • Temporal Convolutional Networks (TCN) • Penetration Testing • Web Development • Agile and Waterfall methodologies.

TECHNOLOGIES

TensorFlow • PyTorch • Theano • Caffe • MXNet • ONNX • Fast.ai • H2O.ai • Git • React • Azure • AWS • Node.js • MySQL • Oracle • OpenCV • DGL • Metasploit • Dask • PyCaret • Horovod • Ray

CERTIFICATIONS & ACHIEVEMENTS

USER-CENTRIC COMPUTING FOR HUMAN-COMPUTER INTERACTION 🌐

IIT Guwahati NPTEL

ELITE CERTIFICATE

2023

CYBERSECURITY ESSENTIALS 🌐

CISCO Networking Academy

AVAILABILITY • CONFIDENTIALITY • ENCRYPTION • INTEGRITY • NETWORK SECURITY

2023

AWS ACADEMY MACHINE LEARNING FOUNDATIONS 🌐

AWS Academy

ARTIFICIAL INTELLIGENCE: MACHINE LEARNING • AWS • AWS CLOUD COMPUTING

2023

INTRODUCTION TO OPENSIFT APPLICATIONS (DO101) 🌐

RED HAT Training

CONTAINERIZATION • DEPLOYMENT • MANAGEMENT • RESOURCE • SCALING

2023

INTRODUCTION TO INTERNET OF THINGS 🌐

IIT Kharagpur NPTEL

ELITE CERTIFICATE

2022

THE GREAT APPSEC HACKATHON 🌐

NASSCOM

FINAL ROUND

2021