Anirudh

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Education

Bachelor of Technology in Computer Science and Engineering
Vellore Institute of Technology
2022 – 2026 | Vellore, Tamil Nadu, India
- GPA: 8.43(Current).
- Currently in the second year of my B.Tech. program, having completed three semesters.

High School
Swami Vivekananda Public School (CBSE) | Haryana, India
- 12th Percentage: 86.6%
- 10th Percentage: 88.2%.

Professional Experience

MyPerro, Vellore, TamilNadu ⚲
Research Intern (On-Site)
Nov 2023 – Present | Vellore, TamilNadu, India
- Worked on a high-performance, unsupervised neural network for nuclei instance segmentation, achieving state-of-the-art results under the mentorship of Prof. Amit Sethi at the Electrical Engineering Department, IIT Bombay.
- Collaborated on enhancing cell segmentation models by optimizing loss functions and integrating diverse deep learning architectures, including CellViT, CLAM and StarDist.
- Contributed to data analytics projects in power systems and smart meter analytics under the guidance of Prof. Anupama Kowli at the Electrical Engineering Department, IIT Bombay.

Netlink Software Group America Inc. ⚲
Machine Learning Engineer Intern (On-Site)
Aug 2023 – Sep 2023 | Bhopal, Madhya Pradesh, India
- Engineered multiple micro-services for custom report generation, employing prompt engineering to visualize intricate data with actionable narratives.
- Proposed and developed a solution to reduce operational expenses for Generative AI by **15%**, creating an alternative **in-house end-to-end model** for Lumenore Business Intelligence. The model was fine-tuned over Apache Superset and H20.ai, optimizing token usage in user sessions to generate narrative insights, dashboards, and custom columns, thereby reducing dependence on ChatGPT.

Organizations

NIDAAN Institute: Rehabilitation, Training and Mental Health
Student Volunteer Towards Inclusive Education
Aug 2023 – present | Bhopal, Maharashtra

Round Square
Student Volunteer Towards Preservation of Arts and Culture
Dec 2017 – 2018 | Muscat, Oman

Skills

Engineering Practices
Machine Learning, Deep Learning, Computer Vision, Natural Language Processing(NLP), Data Structures & Algorithms, Data Engineering and Visualisation, Statistical Analysis, Pattern Recognition, Productionizing Models

Technologies
Git, GitHub, MySQL, NoSQL, PostMan, Flask

Programming Languages
Python (Keras, Tensorflow, Scikit-Learn, OpenCV, NumPy, Pandas etc.), Java, C/C++

Soft Skills
Collaborative Development, Continuous Learning, Problem Solving, Multitasking, Critical Thinking

Projects

TherapyFy ⚲
Utilizing open-source medical imaging data to draw insights for advancing early cancer detection
Feb 2023 – Sep 2023
  The study centers on improving diagnostic prediction accuracy and identifying lung cancer by employing deep learning models, with a primary emphasis on the IQ-OTH/NCCD Lung Cancer dataset.

CounselAI - Streamlining the Legal Research Process ⚲
Recognized with the 'Best Idea' Award at South Asia's Largest Student-Organized Hackathon
Jun 2023 – Jul 2023
  Led a legal research digitization initiative, leading to a **substantial 75 to 80% reduction** in the time required for generating comprehensive historical case reports.

High-Performance Unsupervised Nuclei Instance Segmentation ⚲
Project at Indian Institute of Technology, Bombay
Nov 2023
  Contributed to a high-performance, unsupervised nuclei instance segmentation project, **achieving a noteworthy AJI (Aggregated Jaccard Index) of 0.658**, surpassing methods in both supervised and unsupervised scenarios.

Semantic Segmentation of Nuclei in Histopathological Scans ⚲
Project at Indian Institute of Technology, Bombay
Oct 2023
  Achieved meticulous nucleus identification and multi-class classification from intricate medical imaging through systematic loss experimentation.

Certificates

Oracle Cloud Infrastructure 2023 Certified Data Science Professional ⚲
Oracle

Google Cloud Big Data and Machine Learning Fundamentals ⚲
Google, Coursera

Developing Backend Applications using Node.js and Express by IBM ⚲
IBM, Coursera

AWS Certified Cloud Foundations Graduate ⚲
Amazon Web Services

Google Analytics Certification ⚲
Google Analytics Academy

Developing Frontend Applications using React.js by IBM ⚲
IBM, Coursera

How Google Does Machine Learning ⚲
Google, Coursera

Introduction to Cloud Computing by IBM ⚲
IBM, Coursera

Launching into Machine Learning by Google ⚲
Google, Coursera

Awards

Secured 1st Position:AI-ML Marvels Ideathon to Innovation , graVITas'23, International Techno-Management Festival   2023
VIT Vellore