M Rohit

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Experience

Atal Innovation Mission Lab, New Delhi May 2021 – January 2023
Head & Ambassidor

- Spearheaded a comprehensive training program for 30+ students in drone technology and UAV operations, handpicking the top 6 for advanced mentorship, resulting in great proficiency in aerial systems and photography.
- Provided strategic oversight and mentorship for 13+ student-led projects submitted to the prestigious AIM national competition, with my guidance leading to two teams securing placements in the Top 100 and Top 300.
- Pioneered advancements 3D printing applications by designing intricate models, including a working prototype of a rocket and custom teacher gifts

The computer science Lab, New Delhi August 2019 – January 2023
President

- Organized multiple competitions on AI, web design, and video editing, engaging over 150 participants
- Delivered workshops and webinars on AI, Python, Django, Figma, Adobe XD, and machine learning, training over 200 students on industry-relevant skills.

Popping Pixel The Photography Club, New Delhi March 2016 – August 2020
Founder & CEO

- Initiated a photography-based entrepreneurial venture, generating revenue by selling artwork during PTM
- Led the club to multiple photography awards and accolades, establishing its reputation for excellence in regional competitions.Won many and contless competion for the club

Experience

Innovations in Brain Tumor Detection, [Location] December 2023 – Present
Project Lead

- Pioneered research on Vision Transformers for medical imaging, achieving a 96.0% accuracy, 96.3% precision, and 97% AUC in brain tumor detection, outperforming traditional CNNs.
- Conducted comprehensive studies on self-supervised learning (SimCLR) to enhance tumor classification from unlabeled MRI data, achieving an AUC of 97% and setting a benchmark for clinical AI models.
- Engineered advanced patch tokenization and spatial encoding techniques to process 50,000+ MRI slices, enabling detection of subtle abnormalities and improving F1-score to 96.1%.

Aesthetic Quality Assessment Model, [Location] June 2024 – Present
Project & research lead

- Developed a state-of-the-art model combining CLIP and Transformers for aesthetic quality evaluation, achieving 88% prediction accuracy across diverse datasets.
- Implemented Label Distribution Learning to improve the model's interpretability and user-specific recommendations.

Genetic Analysis Using Deep Learning, [New Delhi] November 2024 – Present
Principal Invistigator

- Convinced government to invest x amount in the project, waiting for the funds.

Education

SRM Institute of Science and Technology, Chennai, Tamil Nadu, India 2027
Bachelor of Technology in Computer Science and Engineering GPA
Coursework: Machine Learning, Calulus

Skills & Interests

Computers : AWS, RL, LDL, CNN, ResNet, SVM, VIT, Audio Genetic Analysis, Computer Vision.
Category : Photography, Movies, Doing Projects.

Publications

- Sustainable Innovations in Brain Tumor Detection: Leveraging Vision Transformers for Enhanced Diagnostic Precision [Under Review]
- Distribution Learning for Aesthetic Quality Assessment [Work in Progress]