

SUVADITYA MUKHERJEE

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Education

NMIMS University

Bachelor of Technology in Artificial Intelligence [Current CGPA: 3.93/4.0]

Sep. 2020 – May 2024

Mumbai, Maharashtra, India

Experience

Center for Visual Information Technology, IIIT-Hyderabad

Research Intern

June 2023 – Present

Remote/Hyderabad, India

- **Research:** Working towards a publication along Domain Adaptation problems in Autonomous Driving under Prof. C.V. Jawahar and Prof. Shankar Gangisetty
- **Code Implementations:** Operating with internal tools to perform large-scale GPU training and experimentation on Image Segmentation problems

Ivy (unify.ai)

ML Research Engineer Intern

Jan 2023 – July 2023

Remote/London, United Kingdom

- **Demos & Examples:** Work done towards adding newer beginner demos, examples, and guides to the internal and external official documentation, most notably around converting torchvision models into TFLite
- **Front-end & Back-end APIs:** To work on adding to existing infrastructure for front-end and back-end functions in TensorFlow and JAX
- **Internal AI Developer:** To work on an AI Developer (Code-LLMs) that automates and builds upon the existing codebase and speeds up internal development, along with handling their training through Cloud resources like GCP and AWS

Mosaic Wellness Pvt. Ltd.

Software Engineer Intern

May 2019 – August 2019

Mumbai, India

- **Image Annotation Tool:** In-house end-to-end tool, developed with TypeScript (APIs from/into Amazon RDS) and integrated into a React frontend to be used by doctors for tagging and annotation of patient images.
- **ML CI/CD Pipeline:** Designed and partially implemented a Continuous ML pipeline with use of AWS SageMaker, AWS RDS and AWS EC2 for deployment of a classifier.

Leadership

Google Developer Experts

Machine Learning (TensorFlow Core/Keras)

May 2023 – Present

Google Inc.

- **Leader:** Actively mentoring students and early-career professionals around Machine Learning using Keras
- **Speaker:** Educating people about the TensorFlow and Keras ecosystem by delivering talks at various conferences in India and abroad
- **Contributing Developer - KerasCV, keras.io:** Helping out in the development of several guides and tools for the Keras ecosystem

Google Developer Groups

GDG MAD, Mumbai

November 2022 – Present

Google Inc.

- **Co-organizer:** Organizing events and sessions to increase technology literacy and help cultivate a strong Technical ecosystem around Mumbai
- **Mentor:** Helping students get into Deep Learning and Cloud Technologies to jumpstart their development journey
- **Volunteer:** Helping in day-to-day operations of the community group

Publications

- **Guiding the Student's Learning Curve: Augmenting Knowledge Distillation with Insights from GradCAM** - Work on investigating the effects of using GradCAM representations of Teacher models as direct inputs to Student models for quicker convergence. [Accepted]
- **MRI Radiomics in Classification of Diffuse Gliomas** - Work on tumour grade classification prediction problem by Research Group in collaboration with Advanced Centre for Treatment, Research and Education in Cancer, Tata Memorial Cancer Institute [Submitted]
- **Project Lingua Franca: Democratizing Information through Unified Optical Character Recognition and Neural Machine Translation** - Work on combined Optical Character Recognition and Neural Machine Translation for information translation with high-impact languages as targets [Submitted]