SACHIT SHANBHAG

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Interested in the fields of Artificial Intelligence, Generative AI, and Computer Vision.

EDUCATION _

B.Tech. in Chemical Engineering | Indian Institute of Technology, Bombay

2017-2021

Professional Experience

Data Scientist III/Data Science Engineer | Inito (YCW19)

Aug 2021 – Nov 2023

Role at Inito (Samplytics Technologies):

- Spearheaded development of cutting-edge machine learning and deep learning solutions for ELISA test image analysis.
- Contributions in algorithm optimization, deep learning, cross-device compatibility, MLOps, and stakeholder support. Machine Learning and Deep Learning Contributions:
- Developed SVM-based classifiers & detectors on macro qualities of images (textures & colors HSV channel, LBP, etc).
- Improved overall error metrics from 60% to 98% using DL algorithms (using efficientnet, umap, etc).
- Developed detection and segmentation algorithms to process tests and detecting anomalies (detectron2, YOLOv3/5/8, etc).

Cross-Device Compatibility and Integration:

- Extended algorithms and developed generalized pipelines for cross-device compatibility (Android, iOS, standalone wireless device) and accommodated diverse hormones, subunits and assay configurations.
- Integrated systems with GCP to achieve accurate inference, consolidating them into a single focal point.

Deployment and Framework Development:

- Developed deploy testing frameworks and CI/CD pipelines from scratch to improve deployment cycles and batch lifecycles.
- Generalized the image processing system to handle **assay configurations and hormone combinations** at inference time.
- Developed tools and frameworks, supporting stakeholders in faster iterations in the product's batch and deploy lifecycles.
- Developed **controller systems for image processing systems**, enabling control-based reprocessing based on output signals.

Summer Intern | Ernst & Young LLP

May 2020 – Jun 2020

Worked on a leading global AlcoBev company for cost improvement, focusing on Supply chain and Operations

Summer Intern | Daticore LLC

Apr 2020 – May 2020

Contributed towards research & design of a product idea for IT expense management solution, Received LOR from the founder

SKILLS

Technologies: AI, Computer Vision, LLMs

Programming: C++, Python, Git, MATLAB, DAX Frameworks & Libs: PyTorch, Tensorflow, Keras, darknet, scikit-learn MLOps: Google Compute, Flask, Apache Airflow, Elasticsearch

LEADERSHIP AND MENTORSHIP _

Manager (Events) | Techfest, IIT Bombay

Mar 2019 – Mar 2020

Part of the 24-member Core Team of Asia's Largest Sci-Tech Festival | Budget: INR 7.4 Crores | Footfall: 1,75,000+

LEADERSHIP

- Headed a 2-tier team of 80+ students to optimise work distribution for smooth execution of events
- Negotiated with 50+ embassies, consulates and int'l organisations to rope in int'l participation
- Optimised and managed entire int'l exhibitions under zero travel budget | Footfall: 60,000+

INITIATIVES

- Organized lectures with the world's first actor humanoid, 'RoboThespian' and 'Einstein Robot'
- Outlined nation-wide bone density check-up camps | 10,000+ people screened | 50+ camps

MANAGEMENT

- · Amplified Techfest's national reach by expanding zonal tech competitions into 6 zones & initiated Techfest Olympiad for school children, catering to a total of 7400+ students (48% y-o-y growth)
- · Received LOR from Consulate General of Hungary in Mumbai for exemplary in-fest management

Institute Student Mentor | Institute Student Mentor Program, IIT Bombay Social Service Volunteer (teaching) | National Service Scheme, IIT Bombay *7ul 2020 – Aug 2021*

7ul 2017 – Apr 2018

- Taught campus workers computers, digital literacy tools (MS word, docs, UPI, etc); completing 80+ hours of social work
- · Ideated and worked for the Neem School Initiative, imparting social values like empathy to children living in slums

CERTIFICATIONS

- Technology: Neural Networks and Deep Learning: Deeplearning.AI, Business Analytics for Decision Making: CU
- Management & Finance Specialisations: Strategic Leadership and Management, (with hons. in Business Strategy), Financial Accounting: UIUC, Analysing and Visualizing Data with Excel: Microsoft, Strategic Management: IIMB