

# 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

**Programming:** C++, Python, Git, MATLAB, DAX      **Frameworks & Libs:** PyTorch, Tensorflow, Keras, darknet, scikit-learn  
**Technologies:** AI, Computer Vision, LLMs      **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	<ul style="list-style-type: none"><li>• Headed a 2-tier team of 80+ students to optimise work distribution for smooth execution of events</li><li>• Negotiated with <b>50+ embassies, consulates and int'l organisations</b> to rope in int'l participation</li><li>• Optimised and managed entire int'l exhibitions under zero travel budget   Footfall: 60,000+</li></ul>
INITIATIVES	<ul style="list-style-type: none"><li>• Organized lectures with the world's first actor humanoid, '<b>RoboThespian</b>' and '<b>Einstein Robot</b>'</li><li>• Outlined nation-wide bone density check-up camps   10,000+ people screened   50+ camps</li></ul>
MANAGEMENT	<ul style="list-style-type: none"><li>• Amplified Techfest's national reach by expanding zonal tech competitions into 6 zones &amp; initiated Techfest Olympiad for school children, catering to a total of 7400+ students (<b>48% y-o-y growth</b>)</li><li>• Received LOR from Consulate General of Hungary in Mumbai for exemplary in-fest management</li></ul>

**Institute Student Mentor** | Institute Student Mentor Program, IIT Bombay Jul 2020 – Aug 2021

**Social Service Volunteer (teaching)** | National Service Scheme, IIT Bombay Jul 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 hon. in Business Strategy), Financial Accounting: UIUC, Analysing and Visualizing Data with Excel: Microsoft, Strategic Management: IIMB