Anshumaan Dash

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Deep Learning, Computer Vision, Problem Solving, Leadership

EDUCATION

Post-Graduation – AI & Leadership	Plaksha Tech Leaders Fellowship	3.68/4.0	2020
BTech. Electronics & Telecomm.	KIIT University	9.13/10.0	2015

Certifications: Advanced AI & ML – IIIT-Hyderabad; Deep Learning Certificate Program – Great Learning

EXPERIENCE

Lead Product Engr – AI & Deep Learning   **Myelin Foundry**, Bangalore, India   Aug 2020 – Present

- Lead and supervise ML problem solving – architectures, frameworks, and processes | Actively involved in client facing
- Specialize in getting SOTA results on computationally constrained deployment targets
- Worked extensively on Image Enhancement based products involving Super Resolution, Denoising, Low Light Enhancement, etc.
- Awarded **Myelin Impact award** for key contributions across multiple products and customers

Machine Learning Engineer Intern   **Naukri.com**, Noida, India   Feb 2020 – Apr 2020

- Deployed *Exam Proctoring Application* (unconstrained face tracking, face recognition, head pose estimation, and gaze estimation models) on a gpu server to check if examinee is looking at screen or not. **Accuracy: 92%**
- Trained RetinaNet-ResNet50 backbone, using 4 V100 gpu on WiderFace Dataset. mAP (IoU=0.5): 94.62% (Easy); 81.94% (hard)

Senior AI Researcher | Part Time   **CellStrat AI Lab**, Bangalore, India   Nov 2018 – July 2019

An early-stage AI startup – solutions consulting in AI

- Started the Computer Vision Team with three researchers and two interns.

Programmer Analyst   **Cognizant**, Bangalore, India   Nov 2015 – Jul 2019

- Implemented 3-tier Content Based Image Retrieval System for a US health insurance provider. F1 Score - 0.87
- Awarded employee of the month for three consecutive months from Dec to Feb, 2019

PROJECTS

Grammarly for Visual Design   Challenge Lab, Plaksha TLF

- Recognized among the **Top 3** Startup Ventures for implementing AI based solution to find font inconsistency, conflicting points of entry, and redundant information in visual design using deep learning and design principles.

Fruit Vending Machine Concept   CellStrat AI Lab

- Utilized detection to get the count of items and segmentation to check for 4 grades of quality
- Used Mask-RCNN and Implemented Loss Rank Mining on custom dataset at three camera settings. mAP (IoU = 0.5): 0.968

Pose based Gait Extraction   Data X Lab, Plaksha TLF

- Recognized a person from their Gait, based on the temporal flow of their pose keypoints. Recognition Accuracy - 86%

Two-factor Authentication: Anti face spoofing   Certification, IIIT-Hyd

- Secured **First** rank at the final capstone challenge - built the backend and trained a MobileNetv2 classifier for a 6-class face expression recognition app. Accuracy: 94.64%
- Used a custom nine-layer CNN based feature extractor for Siamese network to perform face recognition. Recognition accuracy: 89.2%

SKILLS

- **Software Development**   Python, c++, Git, Docker, MicroServices (Flask, FastAPI)
- **Machine Learning**   PyTorch, TF2.X, OpenCV, Quantization, TensorRT, Mixed Precision
- **Deployment Pipeline**   ONNX, SNPE (Mobile & Automotive), OpenVINO, CUDA

EXTRA CURRICULAR

- Active speaker in Meetups, Webinars and conducted Hackathons on DL and ML concepts/applications for global members of CellStrat community and mentored AI interns, DL and ML students at CellStrat