

AYAN NARESH GADPAL

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WORK EXPERIENCE

Monsoon CreditTech, Mumbai
Data Scientist Manager

May 2021 – Current
March 2022 – Current

- Managing two interior research projects. Among my tasks for a client project are planning, presenting, scheduling, resource allocation, and monitoring the business objectives.
- Developed risk and propensity models ([link](#)) in client-facing projects for a top bank in India while effectively communicating internally and externally.

Data Scientist

Aug 2021 – Feb 2020

- Created an automated feature engineering API which improved the results of model significantly.
- Delivered a 4 month project within 2 months with complete validation and rich in features for a top bank in India with minimal supervision.

Machine Learning Intern

May 2021 – July 2021

- Contributed in Monsoon Infrastructure designing to ensure high sustainability and re-usability.
- Working in credit underwriting process (delinquency prediction) of loans disbursed by banks, NBFCs etc.

PMV Electric, Mumbai | *Deep Learning Intern*

May 2020 – June 2020

- Worked on affordable Level 3 autonomy self-driving cars. ([link](#))
- Achieved 71% accuracy (SOTA 81%) with a lightweight semantic segmentation which cost 70% less computation than SOTA on the target hardware.

AP ANALYTICA, Pune | *Deep Learning Intern*

Oct 2019 – Jan 2020

- Developed an Automatic Image-based document parsing system to convert the physical documents to their digital text

EDUCATION

Pune Institute of Computer Technology, Pune
Bachelor of Engineering - Information Technology CGPA: 9.92

June 2018 – July 2021

Government Polytechnic Gondia, Gondia
Diploma in Computer Engineering Percentage: 84 %

May 2015 – Jun 2018

PUBLICATIONS

CascadeTabNet: An approach for end to end table detection and structure recognition from image-based documents
[\[Oral\]](#) [\[60+ Citations\]](#) [\[1000+ stars\]](#) [\[300+ forks\]](#) [\[Github\]](#) [\[Paper\]](#) [\[arXiv\]](#)
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2020

HOG, LBP, and SVM based Traffic Density Estimation at Intersection [\[Github\]](#) [\[Paper\]](#) [\[arXiv\]](#)
IEEE Pune Section International Conference (PuneCon), 2019

SELECTED PROJECTS

Artificial Human Companion, B.E. final year project, PICT, 2021 [\[link\]](#)
Virtual assistant with an automatic face animation for customer service. Integrated NVIDIA's Flowtron (text2speech), Joint BERT (Intent classification and slot filling), and Speech Recognition (speech2text) together with an SQL database.

Real time Human Authentication using Videos, Smart India Hackathon 2020, DRDO, 2020 [\[link\]](#)
Camera-based authentication system with state-of-the-art Face Detection, Face Landmarking, Face Recognition, Face Anti-Spoofing, Gait recognition, Pose Estimation. Web-Application-based deployment using Django, SQLite, and AJAX.

Automatic 3D Objects Inspection System, Consultancy project, VEM, 2020
Automatic system for camera-based high precision dimension extraction of 3D objects for quality inspection.

Online Inspection of Packed Tobacco Cases, Smart India Hackathon 2019, ITC LTD, 2019 [\[link\]](#)
Machine Learning-based Tobacco Grade image classification based on color and texture with a PyQT UI application

AI-based Smart Vehicular Traffic Junction, PASCkathon social hackathon 2019, ACM, Pune [\[link\]](#)
Computer Vision and Machine Learning-based Traffic Density estimation. Intelligent traffic light control using IP Cameras and the Internet of Things. Remote Server-based (Web app) real-time traffic Monitoring, Controlling, and Visualization.

Full Stack Development Projects

- 1) Android, PHP, and Mysql-based mobile app to track and trace assets using NFC tags, GPS location & Trace Reports.
- 2) JSP and MySQL-based web application to record the college semester feedback of teachers from students.
- 3) Fast API-based automatic web scrapping engine to retrieve various details from public websites for any given company.

SKILLS

Languages: Python , Java , C++ , C

Deep Learning: PyTorch, Tensorflow Keras

Framework: Django, Android Studio

ML: Pandas, numpy, featuretools, sklearn

Databases: MySQL, Oracle, Firebase

Other: Open-CV, Docker, Git, Jira

Frontend: HTML, CSS, JavaScript

Backend: JSP, PHP, AJAX

AWARDS & HONORS

- **Finalist** Smart India Hackathon 2019, and 2018 (India's Biggest Hackathon)
- **Runner Up** Social Hackathon, at ACM PASCkathon PICT 2019 (Shortlisted to present at **Google DevFest 2019** Pune)
- **Runner Up** PICT INC 2019 (Pratibha) National Level presentation competition