Ankush Chaudhari

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EDUCATION

New York University - Center for Data Science New York, USA
Master of Science, Data Science - Industry Concentration Aug 2022 – May 2024
Coursework: Optimization and Computational Linear Algebra, Probability and Statistics, Intro to DS

Vellore Institute of Technology Vellore, India
Bachelor of Technology, Computer Science and Engineering | GPA: 3.97/4.00 2017 - 2021
Coursework: Data Structures & Algorithms, DBMS, Machine Learning, Image Processing, NLP, Web Mining

EXPERIENCE

Snackpass | *Software Engineer – Data Squad* Sep 2021 – May 2022 | San Francisco, CA (Remote)
- Built optimized **ETL pipelines** using **Airflow** on **AWS** to integrate 5 different data sources **handling 50M+ records/day**.
- Designed and built a **Leads Scoring internal tool** which uses raw data points of over **1.5M restaurants** to compute the score of their probability of conversion to Snackpass partners based on features such as orders pattern, online reviews across 18 sources, menu, etc., **saving the sales teams' approx. 3000 worker-hours/year.**

Sleek | *Machine Learning Engineer* Aug 2020 – Sep 2021 | San Francisco, CA (Remote)
- **Spearheaded R&D of patent-pending technology** which generates crowd analytics for large areas by using ML to analyze radio wave patterns emitted by smartphones with up to **85% accuracy** deployed on cost-effective portable hardware.
- Developed a **CNN-based client menu digitization** solution which **reduced onboarding time from 2 hrs. to 10 min.**
- Developed an **XGBoost regression-based order preparation time estimator** model trained on features such as concurrent open orders count and items specifications, current order items specifications, historical trends of the store, etc. to estimate the time duration required to complete the current order. **Achieved an RMSE of under 2 min.**

Sleek | *Data Scientist Intern* May 2020 – July 2020 | San Francisco, CA (Remote)
- Developed a **CNN-based crowd analysis application** to detect queues and estimate wait times **with an RMSE of 2 min.**
- Optimized deep learning processes to support **GPU-based inference**, which **increased the throughput by 10X.**

VIT in collaboration with **ISRO | *Student Researcher*** Jan 2021 – July 2021 | Vellore, India
- Worked under the guidance of Dr. Santhi V. on the **SAR Satellite Image Analysis** research project**,** proposed and sponsored by the **Indian Space Research Organization** (ISRO).
- Developed the **sidelobe suppression algorithm** for lossless enhancement of 16-bit satellite images using Python.
- Formulated a novel approach that significantly improved the quality of results and **reduced the processing time from 8 hrs. to 15 min. for gigapixel resolution SAR images** compared to the existing solution.

GSPANN Technologies Inc. | *Data Scientist Intern* May 2019 – Jun 2019 | Hyderabad, India
- **Developed an image fashion product search MVP for Kohl's** by training a CNN to extract image features and cross-referencing them with the products database which **reduced user search time by 40% compared to text-based search.**

PROJECTS

FITBOT – AI-powered personal fitness coach Mar 2021 – Jun 2021 | India
- Solves the issues with fitness centers especially in the COVID-19 situation while maintaining users' safety and privacy.
- Generates personalized visual guidance on display to train users to perform the exercise correctly. [Demo Link]
- Used a pre-trained model (OpenPose) to detect the user's posture and developed an algorithm to evaluate its correctness.

Social Distancing Analyzer COVID-19 Apr 2020 – Jun 2020 | India
- Developed an AI tool that monitors social distancing and mask-wearing protocols in public places using CCTV surveillance
- **Deployed in 3 hospitals** to assist and alert security personnel when required in real-time.
- **400+ stars and 200+ forks on GitHub** [Link] and also **featured in The Times of India.** [Link]

Automated Toll and Fine Collection System Jan 2020 – Nov 2020 | India
- **Patent published** (not granted yet) solution which uses a combination of deep learning-based algorithms and infrastructure design to automate toll and speeding fines collection. [Patent Application No: 202041055717 A] [Link]

LEADERSHIP

Zetatron Solutions | *Co-Founder and CTO* Sep 2019 – May 2020 | India
- Developed products that **helped 30+ SMBs to make data-driven strategies** to maximize revenue.
- Directed a team of 6 employees and **generated $15K+ revenue in 9 months.**

Society of Petroleum Engineers – VIT | *President* Jan 2019 – Feb 2020 | India
- Directed a team of 35 members and established efficient workflows to achieve the organization's goals.
- For leading the chapter to **top 5% globally, received Presidential Award for Outstanding Student Chapter.**

SKILLS AND INTERESTS

Programming Languages: 5000+ Lines: Python, SQL | 1000+ Lines: Java, MATLAB
Libraries: OpenCV, NumPy, Pandas, Airflow, PyTorch, Scikit-learn, CUDA, BS4
Technologies/Areas: GCP (BigQuery, Compute Engine, Composer), AWS (MWAA, S3, EC2), Computer Vision