Contact

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suprateembanerjee (LinkedIn)
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(Other)

Top Skills

Time Series Forecasting

Machine Learning

Python

Languages

Bengali (Native or Bilingual)

Hindi (Professional Working)

English (Native or Bilingual)

German (Elementary)

Certifications

Virtual Reality Workshop

Fundamentals of Dynamic
Programming

Hacktrack - Ethical Hacking

Introduction to Data Science in
Python

Python Data Structures

Honors-Awards

West Bengal Science Fair - Runner's
Up

ACM ICPC Provincial Contest
Rankholder

Suprateem Banerjee

Machine Learning Engineer | ex Schneider Electric
United States

Summary

I am a researcher in Computer Vision and Deep Learning, currently
pursuing my MS in Computer Science from Khoury College at
Northeastern University. My interests involve Computer Vision
and Perception Systems, harnessing Deep Learning to solve
real business challenges, ML pipeline development in production
environment, and optimizing model inference times so that they can
be used online in time-critical systems.

During the pandemic I focused on self-learning and researching, and
I have taken several courses from Udacity and Coursera, ranging
from topics like Business Leadership (my long term goal) to Deep
Neural Networks (my medium-term goal). Much of my motivation
for pursuing a degree in Computer Science is being able to solve
problems at a societal level, things that alters and improves the
lifestyles of people in our society. To me, that is the purpose of
Science itself.

Autonomous vehicles is one such application that I find exciting and
something that can have wide ranging impact on the society. Not
only would things like this save lives lost to reckless / inebriated
driving, it also opens up opportunities to streamline traffic
automatically in a swarm system which can enable much faster
movement of traffic in city streets. This drives my interest in working
with Self Driving Cars as a Perception / Deep Learning Engineer.
Overall, I wish to contribute my skills towards enabling a positive
social change using technologies that will potentially shape the
future.

Experience

Khoury College of Computer Sciences
Graduate Teaching Assistant
January 2023 - Present (4 months)
United States

Graduate Teaching Assistant for CS5010: Programming Design Paradigms. Responsibilities include conducting Office Hours, clarifying doubts, guiding learners and grading assignments among others.

Schneider Electric
8 months

Data Scientist
August 2022 - December 2022 (5 months)
United States

Cybersecurity Automation Analyst
May 2022 - August 2022 (4 months)
United States

Khoury College of Computer Sciences
Graduate Teaching Assistant
January 2022 - May 2022 (5 months)
Boston, Massachusetts, United States

Graduate Teaching Assistant for CS5010: Programming Design Paradigms. Responsibilities include conducting Office Hours, clarifying doubts, guiding learners and grading assignments among others.

NimbleBox.ai
Machine Learning Engineer
May 2021 - August 2021 (4 months)
Chennai, Tamil Nadu, India

Implemented 2 pilot projects using Python that would automate real-world business workflows saving constant monitoring labor.

∘ Developed a Mask R-CNN based instance segmentation model to segment out newly manufactured plastic bottles in a conveyor belt setup and used classic Computer Vision techniques to assess chromatic consistency with 99% accuracy.
∘ Optimized prompt design and clustered generations based on lexical and semantic similarity for Transformer-based language models such as GPT-3, focused on conversational AI and the impact it would have on intelligent chatbots deployed over websites.

Studio4
Digital Marketing Analyst
June 2020 - September 2020 (4 months)

Responsibilities included ideation and execution of technical tasks to optimize website engagement.

The areas I worked on include but not limited to Website Optimization, Data Analysis, Visitor Behavior Mapping, Re-marketing, Search Engine Optimization (SEO), and Online Ads (Google Ads, Facebook Pixel).

Salesforce
Student Group Leader
April 2018 - May 2020 (2 years 2 months)
SRM Institute of Science and Technology

Founded and led the Salesforce Student Group in SRM Institute of Science and Technology, Kattankulathur.

In the two years of my leadership, I interacted with various industry experts to establish the image of the community and awareness about the technologies involved. We presented unique learning opportunities for students from all departments, having conducted over 6 Salesforce events, and evolving ourselves from the feedback we received constantly.

This experience introduced me to team leadership and enabled me to develop myself in my capacity to lead a team, including inducing a positive team culture, scaling organizations, exploring feedback mechanisms, and experimenting methods to incentivise cooperation and productivity across the community, among others.

ObjectSol Technologies Pvt Ltd
Machine Learning Intern
December 2018 - December 2018 (1 month)
Kolkata, West Bengal, India

◦ Developed a Movie Recommendation Engine as a pilot project using the Weka API in Java.
◦ Created a Content-based model for "cold start" cases in absence of previous user-item interactions, clustering TF-IDF vectors using K-Means based on user-entered text (such as genre) to recommend movies.
◦ Devised a Collaborative Filtering model using user ratings as explicit feedback from the MovieLens 1M dataset, using cosine similarity as a distance metric between user vectors, with 92% accuracy.

PSK Infotech
Software Engineer
April 2018 - June 2018 (3 months)
Chennai, Tamil Nadu, India

◦ Developed a simple Graphical User Interface for an Retail Billing System using C# in Microsoft Visual Studio.
◦ Implemented queries to a mySQL based inventory database, updating the GUI with latest state of the inventory.

Education

Northeastern University
Master of Science - MS, Computer Science · (2021 - 2023)

Udacity
Nanodegree, Self Driving Car Engineer · (2020 - 2021)

SRM University
Bachelor of Technology - BTech, Computer Science and Engineering · (2016 - 2020)