

SANSKAR TEWATIA

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EDUCATION

University of Southern California

Los Angeles, USA

Master of Science in Electrical & Computer Engineering: ML & Data Science-3.63/4

August 2022-May 2024

Relevant Courses: Computational Deep Learning, Cloud Computing, Machine Learning-1, Deep Learning Systems, Data Management

Shiv Nadar University

Delhi NCR, India

Bachelor of Technology in Electronics and Communication Engineering - 9.05/10

July 2018-May 2022

High Distinction - 2nd Rank in Electrical Department

Relevant Courses: Applied ML, Applied Deep Learning, ML through R, Computing Principles, Data Structures

SKILLS

Python(Microsoft Technology Associate Batch), C++, C, R, NodeJS, MATLAB, Octave, Machine Learning Frameworks: Keras, TensorFlow, PyTorch, SKLearn , Deep Neural Networks, Computer Vision, NLP, Reinforcement Learning, AWS, Google Cloud, MongoDB, SQL, Data Analysis, REST,Azure.

EXPERIENCE

Symosis Security

Remote

Machine Learning Intern

March 2024-May 2024

- Worked with LinkedIn's AI Team to design, customize, and deploy a GPT-based Chatbot for specifically advancing the functionality of internal document analysis, automated risk assessment, etc.

Amazon

San Diego

Applied Scientist Intern

May 2023-August 2023

- Developed and assist with new research projects focused on expanding breadth and depth of Computer Vision for Amazon technology and development, articulate technical challenges and solutions.
- Devised, coded, tested & pushed to production new algorithms, wrote research paper while partnering with scientists.

Prof. Sukumar Mishra, IIT Delhi

New Delhi

Machine Learning Researcher

January 2022-May 2022

- Developed 1D CNN based Power Quality Disturbance (PQD) Classifier model for AC Phase-to-Neutral voltage received from the Electricity Board (220v - 50Hz based model)
- Created own dataset of AC Voltage measurements incorporating up to 3 different PQDs simultaneously.
- Executed software on a Raspberry Pi 4, measuring, digitizing, & classifying real-time voltage recorded via Arduino UNO

Orangewood Labs YC18, SF

Remote

Software Developer Intern

May 2021-July 2021

- Devised end-to-end NLP-based Intent Recognition model to add support for Voice Control of movement & action of a Multi-Axis Collaborative-Bot
- Generated specific purpose dataset of sample commands, interfaced various APIs, and deployed model to Google Cloud Platform after developing own Flask API of project.
- Collaborated with members of software development team and personnel from mechanical department

Dr. S S Gill (QMUL England),Manmeet Singh (IITM & UT Austin)

Remote

Machine Learning Researcher

December 2020-January 2021

- Led the Black Friday Sales Analysis problem and achieved a global rank of 113 out of 22,700 participants.
- Observed and analyzed sales patterns from previous years' data to find out patterns of purchase behavior, utilized classical & modern ML algorithms to make regression predictions for future such sales.
- Published Springer book chapter as first author, DOI - https://doi.org/10.1007/978-3-031-30101-8_3

ACADEMIC PROJECTS

University of Southern California & Shiv Nadar University

Remote

Course and Personal Projects -

August 2019-Present

- Fall 2023 Advanced Deep learning Project – Smart Frame Sampling for Video Action Detection
- Spring 2023 Deep Learning Project - Musical Chord Classification using CNNs
- Spring 2023 Cloud Computing - Full-stack property management application coded using NodeJS, MongoDB, and REST
- Monsoon 2021 Major Project - Smart Traffic Light Control exploiting Reinforcement Learning
- Spring 2021 ML through R Project - Future Forecasting of Weather, Hospital Length of Stay Prediction

LEADERSHIP AND INVOLVEMENT

- Led the IEEE SNU Student Branch as The Secretary 2021-2022, organized multiple events, webinars, and workshops.
- Grader for EE599 ML Systems course, member of various student societies such as AI Club, Robotics Club, Gaming Society, and Cubing Club, initiated the Stand-Up Comedy Club, Transport Committee, and Hostel Representative, TA for Digital Electronics Course.