

Harsh Sanjay Agrawal

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EDUCATION

Stevens Institute of Technology

Masters in Computer Science with Graduate Certificate in Machine Learning

Dec 2022

GPA: 4.0/4

University of Mumbai

BE in Electronics and Telecommunication

Aug 2017 - Jul 2021

CGPA: 8.25/10

SKILLS

Machine Learning : Deep Learning, Computer Vision, Time series, Natural Language Processing, Python, R, Spark, Hadoop

Software Development: HTML, CSS, XML, MongoDB, Express, Node, JQuery, Django, Flask, Javascript

Mathematics: Vector Calculus, Probability Theory, Statistics, Linear Algebra, Discrete Maths, Information Theory, Optimization

Cloud / Data: Amazon Web Services, Google Cloud Platform, MySQL, PostgreSQL

WORK EXPERIENCE

Graduate Student Assistant - Stevens Institute of Technology (WebCampus)

Oct 2021 - Present

- Transcribed school of business and school of engineering courses into UDL compliant format and worked on improving accessibility of digital content to be inclusive of disabilities and user friendly for thousands of Stevens students

Data Analytics Internship - Reliance Industries Ltd. Mumbai

Nov 2019 - Dec 2019

- Optimized attrition prediction and app recommender system to solve problems faced by Reliance Jio and developed a system to classify millions of user complaints into concise and well-illustrated reports for efficient sentiment analysis

PROJECTS

Airline Passenger Satisfaction - Data Mining | Parameter Optimization | Clustering | Supervised learning

Jul 2021 - Dec 2021

- Built ML models (KNN, Bayesian, DTree etc.) to predict airline satisfaction based on tagging and customer feedback
- Gained valuable insight into passenger sentiments to boost customer loyalty and increase travel satisfaction and retention in economy class of passengers by 10%

Disease Assistant - Deep Learning | Web Development

Jul 2020 - May 2021

- Designed computer vision model to check hygiene and NLP chatbot suggesting course of action in high risk of infection and engineered a full stack web server enabling users to book available medical appointments based on location
- On deployment, projected to save 20 man hours a day spent creating appointments

Web Based Autonomous Irrigation System - Embedded System | Computer Vision

Sep 2019 - Mar 2020

- Trained computer vision system to ensure no harm is caused by pests or plant diseases detected being tested for deployment in SIES Graduate School of Technology
- Implemented IOT based system to irrigate farms autonomously depending on type of crop and environmental factors

ACHIEVEMENTS

PCE Ideathon 2020 (national project competition) - Awarded 1st prize with web app project "Covid-19Supplies"

Smart India Hackathon 2020 - Winner internal hardware hackathon with "Web Based Autonomous Irrigation System"

Bytecamp Hackathon 2019 - Attained 2nd runner-up position with IOT project "Gesture recorder"

LEADERSHIP

DSC Lead & Machine Learning facilitator

(Google Developer Experts)

- Managed a team of 8 programmers specializing in diverse domains to administer various projects with the Google Developer Expert's Group for Google Solution Challenge 2020
- Arranged workshops, hackathons and coding sessions to help 200+ students with Google Technology and Machine learning

Technical Mentor

(IEEE SIESGST)

- Initiated a website for and web server for IEEE Smart Village initiative used for data analytics leading technical sub-chapter of 9 developers aiming to bring electricity and connectivity to a remote village in Maharashtra
- Ranked first among college participant teams and campus ambassador for IEEEExtreme coding competition

Student Chapter Lead

(SIESGSTarena, Codechef Campus Chapter)

- Spearheaded problem setting and organization of 25+ competitive coding contest along with a team of 30 people
- Modeled recommender system for personalized blogs, playlist suggestions to help 150+ students with competitive coding

CERTIFICATIONS

Big Data Hadoop and Spark with Scala

(Udemy)

Tensorflow Developer Professional Certificate Program

(Deeplearning.ai)

Deep Learning: Face Recognition & OpenCV for Python Developers

(LinkedIn Learning)