

Aditya Chaturvedi

Data Scientist

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Professional Profile

An aspiring data scientist with knowledge in data engineering, modelling, visualization & deployment. Strong ability to communicate with clients and ability to express ideas clearly & concisely.

Education

2024	Lovely Professional University <i>Relevant courses:</i> <ul style="list-style-type: none">Machine LearningDeep LearningSQL & Visualization	B.Tech, Computer Science & Engineering <ul style="list-style-type: none">Robotic Process AutomationSoftware Bots Using RPANatural Language ProcessingProbability & StatisticsSoftware Engineering	CGPA: 7.33
2024	Indian Institute of Technology Madras <i>Relevant courses:</i> <ul style="list-style-type: none">Tools in Data ScienceBusiness AnalyticsMachine Learning Practice	B.S., Data Science & Applications <ul style="list-style-type: none">System CommandsMachine Learning TechniquesDatabase Management SystemsPython Data Structures & AlgorithmsModern Application DevelopmentProgramming Concepts Using Java	CGPA: 7.00

Skills

	<u>Programming / Statistics</u>	<u>Libraries</u>	<u>Visualization</u>	<u>Others</u>
Proficient:	R, Python, SQL	Scikit,Numpy,Pandas	Matplotlib,Plotly,Seaborn	Git
Intermediate:	Java, C	Tensorflow	Power-BI,Tableau	Bash
Basic:	HTML, CSS	Torch, OpenCV		

Experience

<u>MACHINE LEARNING</u>	
Sept. 2023 – Present	Image Processing & Computer Vision Intern PROXMED Melbourne, Australia (working remotely) <ul style="list-style-type: none">Developed and implemented a robust and efficient algorithm using Image Processing Techniques and a U-Net based Architecture to automate brain region extraction from Brain CT Angiography (CTA) images as part of the hackathon.Awarded the "Best Performer" in the Proxmed-LPU Hackathon, received a cash prize of Rs. 10,000

Projects

See adityachaturvedi.github.io for additional information

2023	Brain Mask Extraction (Segmentation) Hackathon	Python, OpenCV, TensorFlow, Nibabel, Numpy
	<ul style="list-style-type: none">Developed and implemented a robust and efficient algorithm using Image Processing Techniques and a U-Net based Architecture to automate brain region extraction from Brain CT Angiography (CTA) images as part of the hackathon.Collaborated with the Proxmed team to create a model trained on 21 CTA images, achieving an outstanding average Dice score of 0.95 on the training set and 0.94 on the testing set, demonstrating exceptional performance and precision in brain segmentation.Awarded the "Best Performer" in the Proxmed-LPU Hackathon, received a cash prize of Rs. 10,000 for winning the hackathon, demonstrating exceptional expertise in computer vision and machine learning.	
2015	Air Quality Index Prediction Using PM 2.5 Machine Learning	Python, Scikit-Learn, Matplotlib,Flask
	<ul style="list-style-type: none">Aggregated and prepped 8 years of Climate Data from Open Source Climate APICreated ExtraTree Regressor & Linear Regression Model achieving accuracy of 0.87 on training and testing dataset.Deployed the model on Render	

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Achievements

2022 **MENTEE - ACM IKDD SUMMER SCHOOL ON DATA SCIENCES**

IIT-Gandhinagar

- Selected Among 50 Students from all-over India to spend summer at IIT-Gandhinagar.
- Learnt and worked on Recommendation Systems, Natural Language Processing, Image based Deep Learning Models, Climate Prediction Models
- Got Special Appreciation from Rishab Mehrotra (Director, Machine Learning, ShareChat) and Prof. Anirban Das Gupta.
- Created a NLP project analysing the 2008 American Presidential Elections

2022 **Winter Student - Topics on Digital Trust**

IIT- Bombay

- Among the cohort of 60 students of diverse backgrounds from entire country, ranging from PHDs, Masters and a few undergrad students.
- Studied Blockchain, Cryptography, Side-Channel Attacks, Micro-Architecture Security.
- Implemented a Ethereum Smart Contract as part of project.

Volunteer

2021 **MEMBER - INCREDIBLE 8**

Lovely Professional University

- Volunteered in Vaccine Awareness Program as part of Incredible 8 team.
- Created Social Media Campaigns and organized virtual meets regarding preventive measures, vaccine awareness.
- Helped in arranging of emergency care items during the second wave, organized meet-ups for students facings mental health issues and other problems
- Created infographics and animations on subjects of disease prevention, catered to more than 500 people.