

ADITYA VERMA

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EDUCATION

Navy Children School [Mumbai, New Delhi, Visakhapatnam] Chennai, India
1 - 12 | House Captain – Red House [Prefectorial Council]
Science Stream with CS | NCC 2010 – 2022

SRM INSTITUTE OF SCIENCE & TECHNOLOGY || CGPA : 7.11 Chennai, India
Bachelor of Technology B.Tech | Dept. of Data Science and Business Systems
Computer Science & Engineering w/s Big Data Analytics August 2022 – May 2026

ACADEMIC & RESEARCH PROJECTS

Conjuncture – 4 Layer LSTM with OpenCV Stock Price Predictor [\[LINK\]](#) October 2023
It is a machine learning web app for forecasting the stock prices of certain companies into the future. It utilizes the stock prices for Alphabet Inc. (GOOG) and Apple Inc. (AAPL) for training. This is primarily because the closing stock price graph for these companies over time is quite smooth overall and avoids any sudden ups or downs and follows a healthy upwards trend.
Presented at SRM Tech Expo '23 as team lead on the project to dean, professors, investors, local administration and industry professionals

Plantphenotyping for extreme climate condition [\[LINK\]](#) **[ONGOING]** March 2024
Designed and developed an advanced plant phenotyping model integrated with IoT machinery to optimize plant growth in extreme climate conditions under ensemble machine learning using cnn models and yoloV9. Research findings are under scrutinization to be published in an upcoming academic paper under the guidance of Dr. Hemavathi D at SRM Institute of Science and Technology, Kattankulathur campus

Forest Fire Detection June 2024
Developed a forest-fire detection model using TensorFlow and Keras, achieving 91.38% training accuracy and 90.10% validation accuracy. This convolutional neural network (CNN) significantly enhances early detection capabilities for forest fires, integrating advanced deep learning techniques for accurate prediction and prevention.

Parkinson's disease detection model CNN June 2024
Implemented a Parkinson's disease detection model using Convolutional Neural Networks (CNNs) in Python. Achieved 79.49% validation accuracy after training for 10 epochs. Model employs Conv1D, LSTM, Dense layers, and Adadelat optimizer to classify patient status based on voice recordings.

Leaf Disease Prediction Model [\[LINK\]](#) June 2024
Developed a state-of-the-art Convolutional Neural Network (CNN) computer vision model [ResNet34, EfficientNet B5, GoogleNet] accuracy of 98.976% under the guidance of Dr. Kalpana AV at SRM Institute of Science and Technology, Kattankulathur campus. Engineered to predict a wide array of leaf diseases, the model demonstrates robustness in handling diverse disease types.

DermaScan – ML Website [\[LINK\]](#) March 2024
Developed DermaScan skin lesion detector using HAM1000 Dataset & Mobilenet V2. Integrated with web interface and custom chatbot leveraging ChatGPT 3.5 Turbo. Achieves 80% accuracy in detecting various skin conditions including Actinic keratoses, intraepithelial carcinoma, basal cell carcinoma, benign keratosis-like lesions, dermatofibroma, melanoma, melanocytic nevi, and vascular lesions.

ACM SIGKDD Student Chapter Website [\[LINK\]](#)

March 2024

I designed and developed the ACM SIGKDD Student Chapter website, utilizing React.js, Node.js, and MongoDB technologies. This project also involved creating the official website for the ACM (Association for Computing Machinery), adhering closely to ACM's design guidelines.

EveHub [\[LINK\]](#)

Januray 2024

Developed and deployed a full-stack solution to solve the problem of scattered information of event management within the college campus, covering event listing, registration, and attendance tracking. Conducted extensive testing to ensure reliability. Used by 10,000+ students, addressing the challenge of event visibility and enhancing campus engagement. Used database of Appwrite, ReactJS.

TECHNOLOGIES

- Python, C, C++, ReactJS, AWS [\[Learning\]](#), CSS, JavaScript, PowerBI [\[Learning\]](#), Node.Js, MongoDB, SAS, MySQL
- Data Structures and Algorithms, OOPs, Full Stack Software Development, Data Engineering, Data Analytics, Machine Learning, Deep Learning, Computer Vision

WORK HISTORY

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Chennai, India

Undergraduate Researcher

March 2024 – Present

- Crop Plant phenotyping for extreme climate conditions using CV and IOT under Dr. Hemavathi D
- Leaf Disease prediction model using CV under Dr. Kalpana AV

DATA SCIENCE COMMUNITY SRM

Chennai, India

Machine Learning & AI Member

November 2022 – Present

- Advanced in the field of AI/ML by spearheading and leading projects such as Stock Price Prediction utilizing a 4-Layer LSTM model with OpenCV integration, and the development of a Child Safety Chatbot.
- Represented Data Science Community SRM at SRM Technical Expo '23 Event.

ACM SIGKDD Student Chapter SRM KTR

Chennai, India

Chairperson

March 2024 – Present

- Initiated recruitment and organization of core team and chartering of the student chapter with ACM.
- Developed comprehensive event plans and club structure.
- Developed student chapter's website.

NEXT TECH LAB

Chennai, India

Machine Learning & AI Associate

November 2022 – August 2023

- Part of SRM's most esteemed and internationally recognized research lab, honored with the prestigious QS Award.
- Started learning in the field of AI&ML with multiple certifications and ML projects deployed across different fields.

ALTERYX USA INTERNSHIP – AICTE

[Remote] Chennai, India

Data Analytic Process Automation Intern

September 2023 – November 2023

- Mastered all proprietary Alteryx tools for data analytics and process automation during an internship, obtaining two certifications: Designer Core and Foundational Micro-Credential.

SOFT SKILLS

- leadership, public speaking, transparency, integrity, dependable, quality assurance, collaborative, open minded, creative thinking, problem solving Initiative, Emotional Intelligence, marketing, entrepreneurship, conflict resolution, quality decision making

CERTIFICATIONS

- AWS Academy Graduate - AWS Academy Machine Learning Foundations
- Alteryx Designer Core Certified
- Alteryx Foundational Micro-Credential Certified
- Google Data Analytics Certification: Foundations: Data, Data, Everywhere
- Supervised Machine Learning: Regression and Classification - Stanford

OTHERS

- Shortlisted for TES entry Indian Army C/O [All OLQs refined and outstanding public speaking and communications]
- Achieved 2nd place in the Techno Challenge '23 hosted by SRM Department of Data Science and Business Systems. [Rs 3000 Awarded]
- Secured 3rd place in the TECHTREK Hackathon organized by SRM IEEE SB.
- Earned 2nd place in the Technovate '24 Poster Presentation hosted by SRM Department of Data Science and Business Systems. [Rs 1000 Awarded]
- 9th position in KIMO.ai competition under SRM KTR

