

Aarav Rajput

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Summary — A highly motivated and exploration oriented programmer with a passion for researching new technologies and experimenting with them to craft creative solutions to real world problems

Relevant Skills

Data Science	Exploratory Data Analysis, Data Visualization, Dashboarding	ML Ops	Git Versioning, CI/CD Pipelining, Model Tuning
ML Foundations	Supervised Learning, Unsupervised Learning, SemiSupervised Learning	Mathematics	Linear Algebra, Statistical Inference, Probability Theory
Neural Networks	LSTMs, CNNs, RNNs, VAEs, GANs	Webdev	MERN, Designing, Wireframing
Agent Systems	Reinforcement Learning, Expert Systems	Logic	Data Structures, Design and Analysis of Algorithms, Object Oriented Programming
Big Data	Data-mining, Data Warehousing	Languages	C, C++ , Java, Python, R, Typescript
NLP	Lemmatization, Embedding Techniques, Encoding Techniques, Sentiment Analysis	Miscellaneous	Plant UML, LaTeX, 3D Modelling

Experience

The Globalizers

Technical Intern

Dec 2024 – present

Indore, India

- Helped develop a flashcard learning application for vocabulary memorization
- Designed and developed a custom algorithm that enhances learning efficiency

Projects

GRE Matter

Algorithm Designing, React Native, Reinforcement Learning

Dec 2024 – present

The Globalizers

- Developed a smart algorithm to improve students' learning efficiency
- Improvised on techniques like half life regression for predicting students' information retention
- Implemented the back-end for the learning app

AttackML

Data Analysis, ML Ops

Jan 2024 – Apr 2024

VIT Bhopal

- Developed the data pre-processing module for the ML pipeline
- Experimented with various data analysis techniques on real time network traffic data
- Improved the model's performance on the raw network packet data by implementing encoding techniques

Publications

Secure Federated Learning for Collaborative Intrusion Detection Systems

Published in a SCOPUS indexed journal, Nanotechnology Perceptions Vol.20,S16 ISSN: 1660-6795. Linked [here](#)

Dec 2024

Building Resilient AI-enabled Detection Systems for .NET Threats

Published in a SCOPUS indexed journal, Nanotechnology Perceptions Vol.20,S16 ISSN: 1660-6795. Linked [here](#)

Dec 2024

Enhancing Power Transformer Reliability with Machine Learning-Based Fault Detection and Data Analysis

Published in SPRINGER conference proceedings Innovation and Emerging Trends in Computing and Information Technologies ISSN: 1865-0929. Linked [here](#)

Jan 2024

Education

VIT Bhopal University, Madhya Pradesh, India

Integrated Masters of Technology in Computer Science Engineering with specialization in Artificial Intelligence

2021-2026

7.55 CGPA

Certifications

IBM Machine Learning Professional Certification

Jan 2025

IBM Data Science Professional Certification

Feb 2025

Data Science Club

Team Lead, WebDev Team

Apr 2023 – Apr 2024

VIT Bhopal

- Led a small team of developers on various web development tasks for the club
- Refurbished and maintained the official club website
- Trained junior member developers by conducting workshops and group discussions
- Volunteered in successfully conducting the club events

Apollo UI/UX Club

Technical Lead

Mar 2023 – Aug 2023

VIT Bhopal

- Organized seminars and workshops led by industry professionals provide students with real-world insights and best practices.
- Mentored and supported aspiring UI/UX designers, providing guidance and feedback on their projects and career development

Codecademy VIT Bhopal Chapter

Community Co Lead

Nov 2021 – Nov 2022

VIT Bhopal

- Helped managing a university chapter of 50+ members
- Hosted innovative events like gamejams, hackathons and fun community interaction events
- Made connections in the industry by collaborating with professionals