

PRAJWAL SHELAR

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Education

Dayananda Sagar College of Engineering

Master's of Computer Application (MCA) (9.41)

Oct. 2022 – Oct. 2024

Bengaluru, Karnataka

Amity University

Bachelor of Science (B.Sc.) in Physics (Hons.) (9.40)

Aug. 2017 – Aug 2020

Mumbai, Maharashtra

Relevant Coursework

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|------------------------|-----------------------|---------------------------|-------------------------|
| • Data Structures | • Algorithms Analysis | • Artificial Intelligence | • Systems Programming |
| • Software Methodology | • Database Management | • Machine Learning | • Computer Architecture |

Technical Skills

Programming Languages: Java (Core and Advance), Python, C, JavaScript, SQL

Logical Coding: Data Structures and Algorithms, Analysis and Design of algorithm

Frameworks: Spring Boot(RestFull api, SpringData JPA, Spring Microservices)

DevOps and Version Control System: AWS, Azure(fundamentals), Git, CI/CD(basics)

IDE's: IntelliJ, Eclipse, Net Beans, pyCharm, VScode

Front End: HTML,CSS, Bootstrap

Operating System: Windows, GNU/Linux (Ubuntu, Arch, Kali Linux)

Other Skills: Multilingual - English (Fluent), German (B2), Hindi (Native)

Projects

IMD Rainfall Analyzer | Python, langchain-huggingface, openai, scikit-learn, customtkinter,etc.

Nov. 2022

- Developed an automated tool to analyze and visualize IMD rainfall data, integrating statistical analysis and custom modules.
- Integrated IMD rainfall data loading, statistical analysis, and custom analysis modules with a user-friendly GUI
- Designed a user-friendly interface with Tkinter, and added a chatbot for enhanced interactivity.

Automated Image Recognition and Capturing System | Java, Java Swing, JDBC and OpenCV

Apr. 2024

- Established a System which can detect a face and automatically clicks the picture of the person using Computer Vision
- By leveraging Java and the OpenCV library, system is capable of seamless integration and user-friendly operation.

Wikipedia Traffic Analysis | Python, numpy, pandas, matplotlib, Jupiter Lab, Scikit-learn

Oct. 2020

- Implemented a machine learning model to scrutinize Wikipedia data and forecast the primary sources of page access, while considering language constraints

Experience

Dayananda Sagar College of Engineering, MCA-VTU

Apr. 2024 – July 2024

Research Project Intern

Bangalore, Karnataka

- By leveraging the Python libraries such as xarray, rioxarray, geopandas, scikit-learn etc completed spatio-temporal analysis on IMD rainfall data
- Developed "IMD Rainfall Analyzer" application for automating various analysis need over the rainfall data

Motioncut

Nov. 2023 – Dec. 2023

Java Developer Intern

Bangalore, Karnataka

- Expanded Java full stack applications at motioncut, utilizing JavaSE and EE, Spring, JDBC, and Git.
- Collaborated with team members to deliver high-quality solutions.
- Enhanced a system to track daily expenses and track them using Data Structures and EJB.

Achievements

Patent

Dec. 2024

Patent Number: 118561, Published in The Patent Office Journal No. 50/2024, Dated 13/12/2024

Bangalore, Karnataka

- Lead inventor of a system for analyzing large-scale rainfall data, enabling spatio-temporal analysis and predictive modeling for agriculture and urban planning
- Filed under the guidance of Dr. Chandrika M, Dayananda Sagar College of Engineering.

Amity University, Aminova

Apr. 2018

Event Lead

Mumbai, Maharashtra

- Led a team of 16 people in organizing events, winning the "Best Event Award."