

SHREYAS VISWESHWARAN

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EDUCATION

Amrita Vishwa Vidyapeetham, Coimbatore

Expected: May 2025

A Candidate for Bachelor on Technology in Computer Science and Engineering.

Relevant courses: Computer Programming, Database Management System, Software Engineering, Design and Analysis Algorithms, Machine Learning, Neural Networks and Deep Learning. (CGPA: 8.98/10)

Chennai Public School - CBSE

June 2021

Secured a higher secondary examination certificate with distinction.

(Score: 94.2%)

PROFESSIONAL EXPERIENCE

Purplspot Innovations

Sep 2023 - Jan 2024

Intern - Software Engineering and Large Language Models

- Worked on selenium for Whatsapp text automation and also for various web testing using python and jupyter notebook.
- Utilized Flutter and Firebase Cloud Messaging for targeted user notifications via FCM tokens.
- Successfully deployed Llama on a local environment, and proficiently extracted the results as JSON. The model also showed notable proficiency in handling a range of regional languages.
- Utilized MongoDB to efficiently store and retrieve the post-processed data of the large language model.

CONFERENCE PAPERS

An empirical study on ML models with glass classification dataset

- Analyzed 8 distinct machine learning models alongside one deep learning model on a glass classification dataset, showcasing diverse algorithmic approaches and performance metrics for a glass classification dataset from UCI repository.
- Implemented hyperparameter techniques like Grid Search CV, Random Search CV and also deployed Stratified K-Fold cross validation technique.
- Analysis revealed that both XGBoost and KNN algorithms achieved an identical performance of 83.7207% in glass classification, showcasing similar effectiveness despite their distinct operational methodologies.
- Authored a research paper on the same, titled "An empirical study on ML models with glass classification dataset", accepted and presented at the 5th International Conference on Communication and Intelligent Systems, 2023 (To be published by ICCIS).

ACADEMIC PROJECTS

Match da Pairs

- Developed a cross-platform mobile application compatible with both Android and iOS using the Flutter framework and employed Firebase to ensure real-time data synchronization.
- Implemented a secure and user-friendly authentication system using Google Sign-In, enabling users to easily access the app with their Google accounts.
- Utilized Firestore for real-time leaderboard tracking. Designed an efficient data model to store and retrieve user scores and rankings, ensuring high performance and responsiveness even with a large number of concurrent users.

Covid Detector

- Designed a Machine Learning-based image classification system using Django and Flutter, specialized in analyzing Lung MRI images for COVID-19 detection.
- Implemented a robust pipeline where images, uploaded via the UI, are transformed into numpy arrays using the OpenCV library.
- Applied SVM, Random Forest, and Decision Tree algorithms for precise image classification, followed by displaying tailored precautionary measures based on the diagnosis.

Academic Paper Fetcher - Amrita University

- An app that fetches past year question papers for pupils seeking to familiarize themselves with examination formats and practice with real test materials.
- Made with Flutter, http package to make API requests and responsive user interface.
- Utilized shared preferences package for local storage and synchronous calls.
- Deployed Material You themed icons, app bars with dynamic themes and real time fetching.

TECHNICAL SKILLS

- Programming Languages: C, C++, Java, Python, JavaScript, Dart.
- Database: MySQL, Oracle and Firebase.
- Machine Learning and Deep Learning: Numpy, Pandas, Matplotlib, Seaborn, Keras, Tensorflow and Sci-kit Learn.
- Integrated Development Environments: VS Code, Android Studio, Eclipse, IntelliJ, Jupyter Notebook, Spyder, PyCharm.
- Web Technologies: HTML, CSS, Javascript, Node.js, Express.js, Django, PHP.

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

- Conducted a Flutter workshop for juniors while serving as an Android Developer in the Google Developer Students Club (GDSC - Student Chapter Amrita).
- Volunteered in 2022 for children's story-telling sessions and tree-plantation initiatives, collaborating with the National Service Scheme (NSS).
- Completed a course on energy literacy by Energy Swaraj Foundation in 2023, spanning over 12 modules.
- Acquired a Miro (an online whiteboard tool) board verified badge in 2023 by completing couple of tests.
- Joined the One Million Lights campaign in 2023, a significant initiative of the Civil20 working group focused on gender equality and women's empowerment.
- Partook in the 750 Million Suryanamaskar Challenge, a 21-day event marking the 75th anniversary of India's Independence - Azadi Ka Amrit Mahotsav, in 2021.
- Engaged in the 999 Challenge in 2023, a worldwide initiative for promoting yoga and meditation, hosted by the Integrated Holistic Health Working Group.