

Arya Dhrangdhria

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ABOUT ME

Passionate about technology and Flutter development. Skilled in Python, TensorFlow, and innovative project application. Eager to grow and excel in software development.

TECHNICAL SKILLS

Languages: Dart, Python, Java, C++

Frameworks/Libraries: TensorFlow, Flutter, OpenCV, Riverpod, Firebase, Pandas, Numpy, Keras, Scikit-learn

Databases: Firebase Realtime DataBase, Firebase Firestore, SQL

EXPERIENCE

Flutter Developer

Prince Care Pharma Pvt. Ltd.

Oct 2020 – Feb 2022

Bhavnagar, Gujarat, India

- Developed and launched a comprehensive **Product Catalogue Application** using **Flutter** and **Dart**, enhancing digital presence and product accessibility.
- Optimized backend migration from **Firebase Firestore** to **Firebase Realtime Database**, improving latency and user management via **Firebase Authentication**.
- Implemented **Riverpod** for state management and **Firebase Storage** integration, boosting data handling and application responsiveness.
- Enhanced **UI/UX** and introduced product reordering and search, significantly increasing user engagement.
- Utilized **Firebase Hosting** to deploy web applications, achieving a streamlined and scalable solution for product visibility.

iOS Application Developer Intern

Aural

Jul 2023 – Oct 2023

- Identified and resolved** critical iOS app stability issues, **reducing crashes by 75%** for a Shark Tank India startup.
- Revamped UI and audio handling**, **improving user engagement** and session lengths.
- Led backend migration to AWS**, **enhancing scalability and performance by 40%**.
- Directed technical projects** using agile methodologies, ensuring **timely delivery** and **high-quality outcomes**.

EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Computer Science with Specialization in AI and ML

2020 – 2024

PROJECTS

Deep Learning Project - LipNet Model Reimplementation

Python, TensorFlow, OpenCV, GRU, CTC Loss, Adam Optimizer

- Reimplemented **LipNet**, the first end-to-end sentence-level lipreading model, using **Python** and **TensorFlow**. Focused on **spatiotemporal convolutions**, **GRU networks**, and **CTC loss** for sequence prediction.
- Utilized the **GRID corpus** for training and validation, achieving significant accuracy improvements in sentence-level lipreading, surpassing traditional methods and approaching human-level performance.
- Employed data augmentation techniques including mirroring and frame manipulation to enhance model generalization across unseen speakers.

Twitter Sentiment Analysis Project

Python, Pandas, NLTK, scikit-learn, TF-IDF Vectorizer, Logistic Regression

- Engineered a sentiment analysis model using **logistic regression** in **Python** to classify Twitter data into positive or negative sentiments, demonstrating proficiency in **machine learning algorithms** and **NLP techniques**.
- Leveraged **Google Collaboratory** for project execution, showcasing the ability to work with cloud-based ML environments and collaborative tools.
- Applied data preprocessing techniques including text cleaning, stemming, and **TF-IDF vectorization**, improving model accuracy by efficiently converting textual data into numerical format.
- Evaluated model performance with accuracy metrics, ensuring robustness and reliability of predictions in real-world applications.

CERTIFICATIONS

- [Amazon Web Services Cloud Practitioner](#)
- [Applied Machine Learning in Python – University of Michigan](#)
- Nasscom Fundamentals of Data Science