Kirthi .G. Shetty

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SKILLS

- **Languages:** Python, R, Flutter, Dart
- **Data Tools:** Power BI, Jupyter Notebook, Google Colab, NLP
- **Data Science & Analytics:** Machine Learning, Statistical Analysis, Data Wrangling, Data Visualization, Data Storytelling, Deep Learning
- **App Development:**State Management, Clean Architecture, Firestore, Git(Version Control), Local Storage,API

PROJECT

AtWork – Geolocation-Based Attendance Tracking App: *(Java, Firebase, Google Maps API)*

- Developed a mobile application for universities and organizations to streamline attendance marking using **GPS-based geofencing** and **biometric fingerprint authentication.**
- Implemented role-based access control for Admin and Staff, enabling admin to add employees, view/download attendance reports, and track presence in real time.
- **Integrated Google Maps API** to visualize geofenced areas and automatically mark attendance when inside the predefined zone.
- Planned Features: Full bonus points leave system, face recognition login, push notification reminders, analytics dashboard with charts and graphs.

Project Manager: *(Flutter, Dart, Firebase-MVP Completed, Ongoing)*

- Built an Android mobile app to manage projects and add tasks with **CRUD functionality** using Flutter for UI and Firebase Firestore for backend data storage.
- Designed an intuitive UI for task creation, updates, and deletion with **state management**, and implemented a **linear progress graph** to visualize completed projects over total projects.
- Planned Features: Project progress graphs, GitHub account integration for issue tracking, adding achievement badges and streaks.

Movie Recommendation System:

- Developed a movie recommendation model based on the dataset of **5000 movies** that suggests movies based on user's previously watched content and also suggests movies with similar content.
- Combined key text features into a single tag for each movie, then applied tokenization, stop word removal, and stemming using **NLTK's Porter Stemmer** for text normalization.
- Engineered movie feature vectors with Bag-of-Words and cosine similarity to recommend similar titles based on user preferences using python's scikit-learn library.

Hindi Text Summarization Using NLP(Extractive Summarization):

- Developed a Hindi text summarization system that processes Hindi text and generates concise summaries, optimizing readability and selecting most important sentences which will help in saving reader's time.
- Leveraged **NLTK** and **custom regex** for text cleaning, applied sentence/word tokenization, and used scikit-learn's **Tf-idf Vectorizer** to score and select top sentences for generating concise summaries.
- Designed and implemented a user-friendly HTML frontend allowing users to input Hindi text, view character/word limits, see output length, and display the generated summary in real time, demonstrating a complete end-to-end NLP workflow.

EXTRACURRICULAR ACTIVITIES

- Participated in the **Smart India Hackathon 2024** as part of a 6-member team, developing the AtWork mobile application — a geolocation-based attendance tracking system.
- TATA Data Visualisation: Empowering Business with Effective Insights on Forage. - *January 2025*

EDUCATION

2022 - 2026 **Pillai College of Engineering**

Bachelor of engineering in Information Technology | *CGPA - 7.0*

- Key Modules: Machine Intelligence, Deep Learning, Data Science, Android Development, OS, DBMS