

# Tejesh Kaliki

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## Summary:

Software developer, known among peer group for creative problem solving and passion for coding, especially in Python. Strong believer and practitioner of continuous learning, teaching, and growth. Seeking a permanent work-from-home opportunity, as my mobility is limited due to Muscular Dystrophy.

## Technical Skills:

- **Programming Languages** - Python, Golang, JavaScript
- **Libraries/Packages** - Pandas, NumPy, SciPy, Scikit Learn, Spacy
- **Backend** - Django, FastAPI, Go-gin
- **DevOps** - Docker, Kubernetes, AWS
- **Database** - PostgreSQL, Redis, Snowflake, Qdrant
- **Frontend** - HTML, CSS, React, Flutter

## Work Experience:

### Software Engineer - Reckonsys Tech Labs | Dec 2023 - Present

- Worked on AI-powered CRM software to manage customer leads from multiple communication channels, including WhatsApp, Facebook, Instagram, and Email.
- Improved the Python backend for better database communication, using optimizations such as query tuning and caching, achieving a 10x speed increase while reducing database load.
- Integrated AI features into the CRM, enabling automation of tasks like lead classification, labeling, and generating auto-replies, reducing manual work and improving response times.
- Implemented CI/CD pipelines for a Django-based stack, enabling smooth and reliable deployments without downtime. This included automated testing and environment setup.
- Enhanced developer productivity by automating application setup, dependency management, and test data creation, reducing time spent on repetitive tasks.
- Built a Flutter web application to browse and purchase used cars in the UK, integrating with a car provider API for real-time data and ensuring a user-friendly interface.

### Software Engineer Intern - Reckonsys Tech Labs | Dec 2023 - Present

- Developed a Retrieval-Augmented Generation (RAG) system for an AI-powered chat assistant in a CRM.
- Built REST APIs to configure the AI assistant and enable seamless conversations.
- Managed the backend using Django, Dockerised the application, and handled multiple databases and a language model.

## Education:

### Priyadarshini College of Engineering and Technology - B.Tech | Apr 2019 - May 2023

- Graduated with a CGPA of 8.1, First Class with Distinction.
- Built a cloud-based quiz app for a college event. I built this overnight using Flutter and hosted it on Google Firebase. Users can register their team name. Admin manages users, turns the buzzer on or off, and can see the list of people who clicked the buzzer in time order. The event was very successful and the application received overwhelming praise.

## Projects:

### 1. Application for Predicting Engineering College Admission for Class XII Students

Tech Stack - Python (Sklearn, Pandas, Numpy, Django), Bootstrap, HTML, CSS, JS

- Developed an Engineering college prediction system for Class XII students that helps them find colleges they are likely to get admission into based on their entrance examination rank, area, caste, and gender.
- Administrators can view the data as well as train the Machine Learning model with additional data. My role focused mainly on backend development using Django and Python and training the model.

### 2. Data Science: Stock Price Prediction & Red Wine Analysis

Tech Stack - Python (Numpy, Pandas, Matplotlib, Seaborn, Sklearn), Jupyter Notebook

- Developed Machine Learning models for Stock Price Prediction and Red Wine Quality Estimation.
- I started by cleaning the datasets, performing Exploratory Data Analysis, and selecting the best features for training the model.
- The Stock Price Prediction model predicts the future price of a stock based on past trend. The Red Wine model uses features such as citric acid, density, residual sugars etc. to estimate quality of the wine.
- I used Python scikit-learn and achieved high efficiency in both models.

### 3. Setup a Chatbot with an LLM to Answer Questions on Books

Tech Stack - Python (H2OGPT, Discord Integration)

- Used h2oGPT, an open-source alternative to ChatGPT, and trained an LLM (Large Language Model) with a collection of books.
- Deployed the model in cloud and linked it to a bot that answers user queries about those books, summarises their content, and more functionalities. This project is done in collaboration with a team of Discord group members.

## Awards/ Achievements:

- Scored highest District rank in International Maths Olympiad in Class IX.
- Received Govt. of A.P. Pratibha award in 10th and 12th classes for scoring top in Mandal.
- Achieved 99.6 percentile in JEE Mains Mathematics, with no extra preparation or tutoring support.

## Hobbies / Interests:

- Running a Youtube channel on Mathematics for JEE aspirants with 5000+ subscribers and 6L+ views.
- Passionate about automation using Python and using AI, where applicable.
- Love reading non-fiction, especially light reading from Japan and other countries.
- Active member of a Discord group of tech enthusiasts and fans of series "Ascendance of a Bookworm".
- Graphic design of posters, logos, animation, and more using Adobe products and freeware.

## Courses / Certification:

- Top 5% score in LinkedIn skill assessment in Python programming language.
- Internship certificate in Data Science from Corizo.
- Certification courses from Kaggle on Intro to Machine Learning, Data Visualization and Feature Engineering.
- Completed courses in HTML, CSS, JS, and PHP on SoloLearn.