Prathamesh Nikam

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EDUCATION

- **University of Hyderabad (UoH)** Hyderabad, India
  M.Tech - Information Technology *2024 - 2026*
  Courses: *Advanced Operating Systems, Data Structures and Algorithms, Deep Learning, Machine Learning, Social Network Analysis*

- **Modern Education Society College of Engineering** Pune, India
  Bachelor of Engineering - Computer Engineering; Honors in AIML *2019 - 2023*
  CGPA: 8.85

  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Augmented Reality and Virtual Reality, Human Computer Interfaces*

SKILLS SUMMARY

- **Languages:** Python, PHP, C++, JAVA
- **Frameworks:** Scikit, NLTK, SpaCy, NodeJS, Vuforia
- **Tools:** GIT, MySQL, SQLite, Unity3D
- **Platforms:** Linux, Web, Windows, Android

EXPERIENCE

- **The Sparks Foundation** Remote
  Android Developer *April 2022 - May 2022*
  - **Basic Banking App**: Create a simple mobile app for basic transactions and use the SQLite database to store and retrieve useful data
  - **SQLite Database**: Use the SQLite database to store and retrieve useful data
  - **Design UI using XML**: Create multiple XML design elements for each element used in the application

- **Suven Consultants and Technology Pvt Ltd** Remote
  Machine Learning Intern *March 2022 - March 2022*
  - **Sentiment Analysis**: Predict the sentiment for a number of movie reviews obtained from the Internet Movie Database (IMDb).
  - **Text Pre-Processing And Normalization**: Cleaning, pre-processing, and normalising text to bring text components like phrases and words to some standard format is one of the most important processes before going into the process of feature engineering and modelling.
  - **Load Dataset And Normalise The Data**: Load the IMDb dataset after importing the appropriate libraries. The dataset will then be divided into train and test datasets
  - **Doing Sentiment Analysis Using Unsupervised Lexicon-Based Models**: A lexicon model, also known as a dictionary or vocabulary of words specifically aligned for sentiment analysis.
  - **Classifying Sentiment With Supervised Learning**: Using supervised Machine Learning to develop a model to interpret the text content and predict the sentiment of text-based reviews.

PROJECTS

- **Social Network Analysis of VCT Esports Data (Python, NetworkX, Pandas, Scipy, SNA)**: Applied Social Network Analysis to model VCT 2023 esports data, identifying key players and team dynamics, and revealing a significant correlation between team cohesion and win rates. Tech: Python, NetworkX, Pandas, Data Visualization. (July'25)

- **Multi-Modal Data Curation System (Python, Google Cloud Vision & Translation API, Whisper, Gradio)**: Engineered an automated system to process audio, video, and images, extracting text via Whisper and Google Vision OCR, translating it, and curating a multi-lingual dataset for benchmark design. Tech: Python, Google Cloud API, OpenCV, Pandas. (June'25)

- **AI-Powered Audio & Text Summarization App (Python, OpenAI Whisper, Gradio, LLMs)**: Developed a web application to transcribe audio using OpenAI's Whisper and summarize the resulting text with locally-served large language models, providing an intuitive Gradio interface for user interaction. Tech: Python, Whisper, LM Studio. (June'25)

- **Treasure Hunting Augmented Reality Application (Unity3D, Vuforia AR Engine , AR Camera, 3D Assets Development)**: Search from Database when an image is scanned and display or project the obtained result on the scanned image or video. Tech: C++, Vuforia database, Unity3D, Unity Android Plugin, Vuforia AR camera (May '22)

- **Web Technology Project (Web App, Elearning Platform)**: Developed and managed an Elearning Platform using PHP , MySQL and other web components. Tech: HTML, PHP, MySQL. (April '22)

- **3D Top View Shooter Game (Unreal Engine, Game Development)**: A 3D top view shooting game made using C++ Blueprint in Unreal Engine V . Tech: C++, (Feb '22)

- **Virtual Mouse using Hand Gesture Recognition Module (Human Computer Interaction, Machine Learning)**: Virtual Mouse using Machine Learning Tools like Autopy ,Numpy ,Scipy . Tech: Python (November '21)

- **Speech Recognition App(Android Development, Kotlin)**: Created a mobile application which used voice recognition module and displayed the text on the screen . Tech: Java , Kotlin , Android (August'21)