Rutwik Kadam

Email: rutwik2602@gmail.com   **Phone**:9284908856   **LinkedIn**: https://www.linkedin.com/in/rutwik-kadam-1a2b36273/

Education

MIT WPU, Pune
Masters in Computer Science | Aug 2023 – July 2025 | CGPA: 8.73/10
Modern College of Science, Pune
Bachelors in Computer Science | July 2020 – May 2023 | CGPA: 9.22/10

Skills

Languages: Python, JavaScript (ES6+), TypeScript

AI/ML & Data Tools: PyTorch, Pandas, NumPy, LangChain, LlamaIndex, Chroma (Vector DB), RAG, Prompt Engineering, Google ADK(Agent Development Kit), AutoGen

Concepts: Supervised & Unsupervised Learning, Neural Networks, NLP, Embeddings, RAG-based systems, Vector Database

APIs & Backend: FastAPI, Node.js, Firebase, PostgreSQL

Frontend: React.js, React Native, HTML5, CSS3, Tailwind CSS, Three.js

Tools & Platforms: Git/GitHub, Netlify, VS Code

PROJECTS

Marathi POS Tagger using Hidden Markov Model (HMM) and NLTK - Link
Tech Stack: Python, NLTK, Hidden Markov Model, NLP

- Built a **Part-of-Speech tagging model** for the Marathi language using **Hidden Markov Models** and the Indian corpus.
- Pre-processed the tagged corpus, split it into training/testing sets, and trained a **custom HMM tagger** for sequence labelling.
- Achieved an accuracy of **~93.8%** on test data, demonstrating strong model generalization for morphologically rich text.
- Designed a user input pipeline to tokenize sentences and return POS-tagged output.
- Tackled the challenges of **resource-scarce language processing**, showcasing ability to work on low-data NLP problems.

GitHub Engineering Insights Bot - Link
Tech Stack: Python, Lanchain, LangGraph, Github API, Slack, Google Gemini, RAG.

- Architected a multi-agent pipeline with LangChain & LangGraph to orchestrate GitHub data harvesting, analysis, and reporting
- Built a Data Harvester agent to fetch commits and PRs via the GitHub REST API and cache results in JSON with a 10-minute TTL
- Developed a Diff Analyst agent to compute DORA metrics (deployment frequency, lead time), code churn, risky-file detection, and per-developer commit patterns
- Integrated Mistral LLM in a Narrator agent to generate concise, actionable markdown summaries of performance data

WORK EXPERIENCE

PAYS Dashboard – Software Developer.
Internet Soft | React Native, Langchain, Lang Graph, RAG, Foundational Models.

- Developed a cross-platform mobile dashboard app in React Native for restaurant merchants to track and compare sales data.
- Built real-time UI components and charts to visualize daily, weekly, and monthly metrics.
- Implemented AI-powered chatbot using Retrieval-Augmented Generation (RAG) to provide instant analytics insights.
- Ensured responsive design and performance optimization for both Android and iOS platforms.

ACHIEVEMENTS

1. A **Secured 3rd prize** by leading a team in the **Hack MIT Hackathon**, demonstrating exceptional leadership and teamwork.
2. Researched and presented on **Quantum Computing & Teleportation**, exploring theoretical foundations of advanced computing.

CERTIFICATES

1. **Google Data Analytics Specialization** – Coursera (Nov 2021)
   Data wrangling, visualization (Tableau), and analysis techniques.
   Credential: QBQFC3A6CMM2
2. **Python for Everybody – University of Michigan** (Oct 2021)
   Python, APIs, data processing, automation, Artificial Intelligence.
   Credential: BRJEHTMYNE44