

# Ketaki Kulkarni

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## EDUCATION

MIT - World Peace University 2023 – 2027  
Bachelor of Technology - Computer Science and Engineering CGPA - 9.51

## SKILLS

- **Languages:** C, C++, Python, Swift, SQL, JavaScript, HTML, CSS, React.js
- **Frameworks & Platforms:** iOS App Development, Flask, Scikit-learn, Pandas, Sentence-Transformers, Google Gemini API, FastAPI
- **Developer Tools & Platforms:** Git, GitHub, Docker, Google Cloud Platform (GCP), Unix/Linux, Render
- **CS Fundamentals:** Data Structures & Algorithms, Object-Oriented Programming, OS, DBMS, Computer Networks, Software Design Principles

## EXPERIENCE

AIML Intern | AICTE 12/2024 – 02/2025

- Developed a machine learning model using Python and NLP techniques to effectively detect and classify spam messages.
- Executed a full project lifecycle by preprocessing raw message data, building a classifier, and distinguishing spam from non-spam messages with high accuracy.
- **Technologies:** Python, NLP

## PROJECTS

AI-Powered README Generator 08/2025

- Engineered a full-stack web application using Python, FastAPI, and vanilla JavaScript to automatically generate README files by analyzing GitHub repositories with the Google Gemini API.
- Managed the end-to-end deployment of the application, with the frontend hosted on GitHub Pages and the backend on Render.
- **Technologies:** Python, FastAPI, Google Gemini API, JavaScript, HTML, CSS, Git, Render, GitHub Pages

Team Lead | Adobe India Hackathon 07/2025

- Architected a Round 1A solution, achieving **90% accuracy** in structural PDF parsing by training a classification model on a hand-labeled, multilingual dataset with advanced feature engineering.
- Designed the Round 1B semantic search pipeline, which leverages structural chunking and a sentence-transformer model to rank and extract the most relevant text from a collection of up to 10 documents.
- **Technologies:** Python, PyMuPDF, Scikit-learn, Pandas, Sentence-Transformers, Docker

Dynamic Pricing System 04/2025

- Designed a simple front-end/back-end system using Flask and JavaScript to simulate pricing changes based on demand, with basic admin login.
- **Technologies:** MySQL, HTML, CSS, JavaScript, Flask

MoodMuse - A Dynamic Music Recommendation App 04/2025

- Engineered a responsive web application with a dynamic UI, using JavaScript and the HTML Canvas API to generate mood-based Spotify playlist recommendations.
- **Technologies:** JavaScript, HTML, CSS

## ACHIEVEMENTS

P.V. Krishnamurthy Award for securing 1st rank among all computer branches in 1st-year B.Tech. 02/2025

Ranked in the top 7% of students in the AlgoUniversity Technology Fellowship (ATF) 10/2024

Secured 2nd place in Hack-MIT Hackathon. 03/2024

## RESEARCH PAPER & PUBLICATIONS

Enhancing Farming Efficiency with a 7-in-1 Soil IoT Sensor 05/2024

- Designed and prototyped an **IoT system** integrating an **Arduino Uno** sensor board and an **Artificial Neural Network** (ANN) to monitor key soil parameters.
- Developed a framework for a companion **mobile application** and **cloud platform** to provide real-time data analysis for smart farming decisions.
- Conducted a comprehensive analysis of the project's future scope, including scalability, drone integration, and cost-efficiency strategies.

## CERTIFICATIONS

Infosys Springboard - HTML5, Python, NLP, DSA, ML 02/2025

Infosys - Leadership & Communication 01/2025

edX - Critical Thinking & Problem Solving 12/2023

edX - Teamwork & Collaboration 01/2021

Goethe-Zertifikat B1 – German Language Proficiency 08/2020

## EXTRA CURRICULAR ACTIVITIES

Coordinator | Codec Competitive Coding Society 2023 – present

- Mentored students in their competitive programming journey by conducting sessions and sharing resources.

Mentor | Goethe Zertifikat A1 & A2 2018 – 2020

- Mentored groups of students in foundational German language concepts for Goethe exams.

All certifications and supporting documents are available upon request or viewable via LinkedIn