

Vaishnavi Kadam

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SUMMARY

Data-driven software developer with hands-on experience in building machine learning models, real-time data processing, and AI-powered solutions. Skilled in Python, SQL, and data visualization with a proven track record of driving analytics and efficiency through predictive models and scalable solutions.

EDUCATION

Illinois Institute of Technology, *Master's in Computer Science*

Aug 2023 – Dec 2025 | Chicago, IL

Shah & Anchor Kutchhi Engineering College, University of Mumbai,
Bachelor of Engineering in Information Technology

Jul 2020 – May 2023 | Mumbai, India

PROFESSIONAL EXPERIENCE

Skyline Innovation Inc, *Software Web Developer Intern*

Jun 2024 – present | Chicago, IL

- Engineered a voice recording and transcription system with OpenAI Whisper and Google Speech-to-Text to address low speech recognition accuracy, enhancing clarity by 45% in clinical tests with Parkinson's patients.
- Developed AI-driven, personalized speech therapy tasks using ChatGPT to tackle low user engagement, increasing user motivation by 35% through tailored content based on individual profiles.
- Implemented advanced speech analysis techniques using PRAAT to resolve inaccuracies in speech metrics, reducing errors by 50% and preparing the system for large-scale validation with 10,000 Parkinson's UK participants.

Mauli Tablet Tools LLP, *Full Stack Development Intern*

Aug 2021 – Oct 2021 | Mumbai, India

- Spearheaded the development of full-stack web applications to improve user interaction, achieving a 40% increase in user-to-user engagement through a real-time chat feature.
- Facilitated weekly sprint meetings to address team communication issues, ensuring the on-time delivery of all project milestones and resolving 20+ critical bugs within a 2-week sprint, optimizing system performance.

Digicable Network India Pvt Ltd, *Data Analyst Intern*

May 2019 – Jun 2019 | Mumbai, India

- Analyzed historical data on channel acquisition costs and viewership to negotiate better deals, securing a 15% improvement in agreements with targeted channels.
- Developed content strategies based on customer preferences to increase profit margins by 10%.
- Built a demographic and content-based channel viewership prediction model using Python, enhancing decision-making and delivering impactful data visualizations for clear insights.

SKILLS

Programming Languages — Python, C++, JavaScript, Java, PHP, XML

Web Development — HTML, CSS, React.js, Node.js, Beautiful Soup, Scrapy, Selenium

Data Science & Machine Learning — Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Statistical Analysis, Predictive Modeling, NLP Techniques, Exploratory Data Analysis (EDA), Support Vector Machines (SVM)

Cloud & DevOps — Docker, AWS, Google Cloud (Cloud Run, GKE, Google Cloud Storage), ElasticSearch

Databases & Tools — SQL, MongoDB, MySQL, Git, Figma, Firebase, Spark, Hive, Google OAuth, Stripe API

PROJECTS

GitHub Data Visualization And Search Tool

- Designed a data visualization and search platform to address inefficiencies in data retrieval, leveraging OpenAI, Elasticsearch, Docker, and Google Cloud Run, improving search accuracy and efficiency by 40%.

Meal Delivery App

- Engineered an AI-powered meal delivery system to optimize route planning, utilizing React, Firebase, and OpenAI, achieving 95% precision in ETA forecasting and boosting operational efficiency by 30%.

Scrap-App: Turning Bins Into Bonuses

- Developed a scalable database architecture using Firebase and Android Studios to tackle slow data retrieval, reducing retrieval times by 50% and enhancing overall system performance.

Employee Management System

- Spearheaded the creation of a web-based employee management system, replacing inefficient manual record-keeping with a secure, streamlined Java and SQL-powered solution, increasing operational efficiency and data security.

Drowsiness Detection Using Real-Time Video Processing

- Developed a real-time facial landmark detection solution using Python, OpenCV, and TensorFlow to address driver safety concerns, enhancing transportation safety by providing timely drowsiness alerts.

CERTIFICATIONS & PUBLICATIONS

Accenture North America - Data Analytics and Visualization Job Simulation, *Forage* 🏆

Dec 2023

Fog-Enabled Efficient Asthma Monitoring System,

International Journal for Research in Applied Science and Engineering Technology (IJRASET) 🏆

May 2023