

FNU AISHWARYA

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SUMMARY

Full-stack software engineer with experience in AI-powered products, frontend UI, backend APIs, and cloud deployments. Self-driven and proactive communicator, comfortable collaborating across teams and taking ownership of tasks.

EDUCATION

California State University East Bay

Master's in Computer Science

CGPA: 3.972/4.00

California, USA

August 2023 - May 2025

NMAM Institute of Technology

Bachelor's in Computer Science

CGPA: 8.95/10.00

Karnataka, India

August 2018 - June 2022

EXPERIENCE

TEKsystems Global Services Pvt. Ltd. | Software Engineer

September 2022 - June 2023

- Revamped UI components using **React**, **HTML**, **CSS**, and **JavaScript**, reducing mouse clicks by 35%, improving interaction flow, and eliminating legacy styling issues
- Engineered backend services in **Java** with **Spring Boot**, **MongoDB**, and **SQL**, achieving 95% test coverage using **JUnit** and **Mockito**, slashing bug response time by 85%
- Architected cloud-based CI/CD pipelines with **Docker**, **Jenkins**, and **AWS**, managed code via **GitHub** and delivered features in an **Agile** environment using **JIRA**, ensuring confidentiality and system integrity across all workflows

TEKsystems Global Services Pvt. Ltd. | Software Intern

February 2022 - June 2022

- Crafted full-stack features using **Next.js 14**, **Tailwind CSS**, **Node.js**, and **Express.js**, integrated with the **Spring Framework**, and validated APIs with **Postman**, reducing configuration and QA effort by 50%

Dlithe Consultancy Services Pvt. Ltd. | Machine Learning Intern

June 2020 - July 2020

- Trained **Naive Bayes**, **SVM**, and **Random Forest** models using feature selection and cross-validation, visualizing performance metrics with **Matplotlib** and **Seaborn**
- Built and deployed a **CNN** using **TensorFlow/Keras** with 97% accuracy, served via **Flask** for real-time inference

PROJECTS

Sign Language Recognition | [Link](#)

Python, Tensorflow, Transfer Learning, OpenCV, CNN

- Enabled accessibility for non-verbal users and demonstrated real-time usability through a working desktop prototype
- Devised a real-time sign language recognition system using **CNNs**, **Transfer learning**, and **OpenCV** achieving 97% accuracy with inference under **2 seconds** using image preprocessing and data augmentation to improve generalization
- Developed a user-facing desktop application with **PyQt5** and **TensorFlow** that converts hand gestures to text using webcam-based gesture recognition and feature extraction techniques to support accessibility use cases

AI Career Guru | [Link](#)

Next.js, React, Prisma, Gemini API, Clerk, NeonDB, Tailwind CSS

- Used by peers to generate tailored resumes and interview questions, improving job application readiness and confidence
- Architected an AI career platform using **Gemini API** for role-aware resume and interview generation through dynamic prompt chaining, and built a fast, accessible UI with **Shadcn** for consistent design and developer-friendly components
- Built secure, multi-step coaching flows with **Clerk** authentication, **Inngest** automation, and persistent user state using **Next.js 15**, **Prisma**, and **NeonDB**, increasing user task completion rate by 35%

RESEARCH & PUBLICATIONS

- **Identification and Classification of Paddy Crop Diseases using Big Data Machine Learning Techniques** - Published by Taylor and Francis, Data Science and Data Analytics
- **Sign Language Recognition** - Published by IEEE International Conference, DISCOVER

TECHNICAL SKILLS

Programming Languages

Java, Python, C++, C, TypeScript, JavaScript

Web Technologies

React, Next.js, Spring Boot, Node.js, HTML, CSS, Tailwind CSS, Bootstrap, Shadcn UI, Redux

AI & Machine Learning

TensorFlow, OpenCV, CNN, Transfer Learning, Decision Tree, Random Forest, SVM, Naive Bayes, Gemini API

Databases

PostgreSQL, MongoDB, Firebase, SQL, NeonDB

DevOps & Cloud

Docker, Jenkins, GitHub, AWS, Kubernetes

Testing & Monitoring

JUnit, Mockito, Postman, Jest, Sentry

Languages

English, Hindi, Tulu, Kannada

CERTIFICATIONS

- **MTA: Introduction to Programming Using JavaScript** - Issued by Microsoft