

# AKASH ADAK

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## SUMMARY

Highly motivated final-year student specializing in Artificial Intelligence and Data Science with robust software development skills. Proficient in machine learning, data analytics, and programming languages such as Python. Experienced in developing and deploying scalable applications, with a focus on innovation and problem-solving. Seeking opportunities to leverage technical expertise and drive impactful projects in a dynamic environment.

## TECHNICAL SKILLS

**Programming Languages:** Python, HTML, CSS

**Data Science & Machine Learning:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy

**Web Development:** FastAPI, Flask

**Database Management:** SQL, MongoDB

**Tools & Technologies:** Git, Jupyter Notebooks, Docker

**Data Visualization:** Matplotlib, Seaborn, Tableau

**Cloud Services:** AWS, Google Cloud Platform

**Soft Skills:** Problem-solving, Critical Thinking, Team Collaboration, Effective Communication

## PROFESSIONAL EXPERIENCE

### NEXUS INFO

**Tamil Nadu, India**

AIML INTERN

Dec 2023 – March 2024

- Developed machine learning models using Python, TensorFlow, and Scikit-learn to solve real-world problems.
- Analysed large datasets to extract meaningful insights and improve model accuracy by 30%.
- Implemented data preprocessing techniques to clean and transform raw data for better analysis.
- Collaborated on AI projects, contributing to model training, validation, and deployment.
- Presented findings and model performance metrics to stakeholders, facilitating informed decision-making.

### CODSOFT

**West Bengal, India**

ML INTERN

Dec 2023 – Jan 2024

- Designed and implemented machine learning algorithms to enhance data-driven decision-making processes.
- Conducted exploratory data analysis using Pandas and NumPy, identifying key trends and patterns.
- Utilized Jupyter Notebooks for documenting and sharing analytical workflows and results.
- Worked on predictive models, achieving a 40% improvement in prediction accuracy for key metrics.
- Collaborated with the research team to stay updated on the latest advancements in machine learning and AI.

### DIGI GROW HUB

**Maharashtra, India**

WEB DEVELOPER INTERN

Sept 2023 - Nov 2023

- Built dynamic web pages and components using HTML, CSS, JavaScript, and FastAPI.
- Integrated third-party APIs to enhance website functionality and provide real-time data to users.
- Implemented responsive design principles, ensuring optimal user experience across various devices.
- Optimized web performance, resulting in a 25% increase in page load speed.
- Collaborated with designers and backend developers to deliver high-quality, scalable web solutions.

### ELITE SOFTWARE

**Maharashtra, India**

WEB DEVELOPER INTERN

Nov 2022- Feb 2023

- Developed and maintained responsive web applications using HTML, CSS, JavaScript, and Flask.
- Collaborated with cross-functional teams to design and implement new features, improving user experience by 20%.
- Utilized Git for version control, ensuring seamless collaboration and efficient project management.
- Conducted thorough testing and debugging, reducing application downtime by 15%.

## EDUCATION

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**BE AI&DS**

**Padmashree Dr. DY Patil Institute of Engineering, Management & Research**

**Pimpri Chinchwad, India**

➤ CGPA = 8.73

*July 2021 - 2025*

## CERTIFICATIONS

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- AWS Cloud, Udemy
- Machine Learning and TensorFlow, Udemy
- Machine Learning A-Z: AI, Python & R + ChatGPT Prize, Udemy
- Exploratory Data Analysis, Future Skills Prime

## ACHIEVEMENTS

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- SIH 2nd Runner up, Institute Level
- Silver Medal, State Roller Hockey
- Bronze Medal, National Kabaddi
- U14 National Hockey Player

## PROJECTS

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### **Plant Disease Detection using ML and FastAPI**

- Trained a CNN with TensorFlow and Keras for plant disease classification with 95% accuracy.
- Developed a RESTful API using FastAPI for real-time predictions.
- Created a data preprocessing pipeline and user-friendly web interface.

### **Human Emotion Identification using OpenCV and ML**

- Developed an emotion recognition model using facial landmark detection with OpenCV and Scikit-learn.
- Implemented real-time video processing and emotion classification.
- Containerized and deployed the application using Docker for scalability.

### **Fire Fighting Robot using Arduino**

- Constructed a robot with integrated sensors and water pump for fire detection and extinguishing.
- Programmed Arduino for autonomous navigation and fire response.
- Refined sensors and algorithms through extensive testing.

### **Portfolio Website**

- Showcased projects with detailed descriptions and live demos.
- Provided a professional bio and contact information.
- Ensured mobile-friendly design and included a blog for updates.

## INTERESTS

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- Trekking
- Hockey
- Kabaddi
- Singing