

# Himanshu Pathak

Full Stack Developer and aiml

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## SUMMARY

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Enthusiastic about the AI revolution and eager to be a contributing part of it.

Passionate about leveraging problem-solving skills, adaptability and technical expertise to drive innovation in software development.

## EDUCATION

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**B. Tech in Information Technology (Specialization in AI/ML)**, Vidyalkar Institute Of technology Jan '22 — Dec '26  
(GPA: 9.84) Vadala , India

**HSC in** , Vani Vidyalaya Junior College (GPA: 80.33) Jan '20 — Dec '22  
Mulund, India

**SSC in** , Mithila English High School (GPA: 89.80) Jan '19 — Dec '20  
Thane, India

## PROJECTS

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### Pitchify [Link](#)

- Startup Idea Platform Empowering entrepreneurs to pitch and showcase their startup ideas.
- Technologies: Next.js, React.js, Sanity, NextAuth.
- Key Highlights:
  - Developed a dynamic web platform for entrepreneurs to share and gain exposure for their ideas.
  - Designed an intuitive and user-friendly interface to enhance engagement and discovery.

### Plant Disease Detection [Link](#)

- AI-Powered Plant Disease Detection System.
- Technologies: TensorFlow, Keras, Pandas, Matplotlib, Seaborn.
- Key Highlights:
  - Developed a deep learning model for automated plant disease classification using image datasets.
  - Preprocessed images and implemented data augmentation techniques for improved model performance.
  - Built a Convolutional Neural Network (CNN) to extract features and classify plant diseases.
  - Evaluated the model using validation metrics and optimized accuracy through hyperparameter tuning.
  - Visualized training results with Matplotlib and Seaborn for better interpretability.

### AI Trainer [Link](#)

- AI-Based Fitness Trainer for Exercise Detection.
- Technologies: KivyMD, Mediapipe, OpenCV, TensorFlow, Python.
- Key Highlights:
  - Developed a real-time AI-powered fitness trainer using computer vision for exercise tracking.
  - Integrated Mediapipe's Pose Estimation to detect and analyze body movements.
  - Built an interactive KivyMD-based UI for a seamless user experience.
  - Implemented exercise recognition for Biceps Curls, Push-ups, Pull-ups, and Squats.
  - Used OpenCV for real-time video capture and overlaying exercise insights.

## SKILLS

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**Programming** C, C++, Java, Python, JavaScript

**Web Development** HTML, CSS, Tailwind CSS, React.js, Next.js, Express.js, Node.js

**Database Management** MongoDB, MySQL, PostgreSQL, NoSQL

**AI & Machine Learning** Machine Learning, Deep Learning, Neural Networks, Natural Language Processing (NLP), Computer Vision, Artificial Intelligence

**Development Tools** Git, GitHub, Jenkins, Jira, Postman, REST API, Cloud Computing, Sanity Studio.