

ABHAY PATIL

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SUMMARY

Computer Science and Engineering (AIML) student and full-stack developer with strong foundations in DSA, machine learning, and Agentic AI. Skilled in building scalable web applications, intelligent systems, and end-to-end ML solutions using modern frontend, backend, and database technologies, with a strong focus on problem-solving and real-world deployment.

SKILLS

- Languages: Python, JavaScript, C, C++
- Web Development: React.js, Node.js, Express.js, HTML, CSS, Tailwind CSS, REST APIs, Authentication
- Databases: MySQL, MongoDB, PostgreSQL
- ML & AI: Machine Learning, Deep Learning, Computer Vision, YOLOv5, Image Classification, Strong understanding of AI/ML fundamentals
- Libraries: NumPy, Pandas, scikit-learn, PyTorch, Matplotlib, Seaborn, TensorFlow
- Tools: Git, GitHub, VS Code, Postman, Google Colab, Netlify, Vercel, Render
- Core Skills: Proficient in Python, Basic Data Analysis & Visualization, Problem-Solving, Analytical Thinking

WORK EXPERIENCE

AI & Decentralized Intern

BlockseBlock | Aug 2025 – Sep 2025

- Completed a 45-day internship focused on Artificial Intelligence and decentralized technologies.
- Contributed to project development, task execution, and AI-based solution building.
- Assisted in improving intelligent systems through hands-on practical work.
- Collaborated with cross-functional teams, demonstrating problem-solving skills, adaptability, and professionalism.

PROJECTS

Project Management Application

- Tech Stack: React.js, Node.js, PostgreSQL, Prisma, Clerk
- Built a full-stack task and workspace management platform using React, Express.js, and PostgreSQL.
- Designed a Prisma-based relational database with role-based access control.
- Integrated Clerk authentication, webhooks, and automated email notifications.

AI-Based Smart Package Detection & Sorting System for Warehouse Optimization

- Tech Stack: Python, YOLOv5, PyTorch, OpenCV, Pandas, py3dbp, Matplotlib
- Developed an end-to-end computer vision system for package detection using YOLOv5.
- Implemented size and shape classification to enable intelligent package sorting.
- Designed a smart sorting and rack allocation logic to optimize warehouse space utilization.
- Visualized bounding boxes and rack layouts to support automated warehouse operations.

Brain Tumor Detection System | Deep Learning & Computer Vision

- Developed a VGG16-based deep learning pipeline for automated brain tumor classification from MRI scans
- Fine-tuned convolutional layers with a custom classification head and Dropout for overfitting control
- Achieved 95% accuracy across 4 classes with strong precision and recall
- Improved generalization using data augmentation techniques
- Evaluated performance using confusion matrix, classification report, ROC curves, and AUC

EDUCATION

B.Tech – CSE (AI & ML)

Pimpri Chinchwad College of Engineering | 2023–2027 | CGPA: 8.51

12th Grade

Vidyamandir Jr. College, Islampur, Sangli | 2023 | 93% | MHT-CET: 98.28 %ile

10th Grade

Adarsh Balak Mandir, Islampur, Sangli | 2021 | 96%

Achievements & Certifications

- Finalist – IEEE TechSangam 2025, National-Level Hackathon (Certificate of Finalist).
- Winner – INNS Neurathon NLP Challenge, achieved 82% accuracy in an NLP task (Winner Certificate).
- Udemy Certification: Build AI-Driven Automation & Agentic AI Workflows using n8n (Hands-on, real-world projects).