

# Jayesh Rajbhar

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## Education

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**Pillai College of Engineering, Mumbai University** July 2020 – June 2024  
*B.Tech in Computer Science (Specialization in Data Science), Honors in Blockchain*  
**CGPA: 8.67**

- **Relevant Coursework:** Data Structures, Database Management, Data Science, Machine Learning, Data Analytics, Software Engineering, NLP

## Internships and Hackathon

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**IIT-Bombay, Nanobios Lab** Dec 2023 – June 2024  
*Backend Developer (Django, Deep learning, MongoDB)*

- Developed RESTful APIs and database architecture for 3+ healthcare projects.
- Forged and trained computer vision datasets and led a team of four members.
- Led extensive R&D on project architecture, increasing workflow efficiency by 80%.

**Smart India Hackathon 2022 - Grand Finalist** Feb 2022 – Aug 2022  
*Backend Developer (Flask, MongoDB, Machine Learning)*

- Designed and implemented a remote database architecture using Flask and MongoDB for secure data storage and retrieval.
- Achieved 80% accuracy in text threat detection using a machine learning model on Flask API.

**Deep Blue Hackathon 2022 – Semi-Finalist** Nov 2022 – April 2023  
*Backend Developer (Flask, MongoDB, LLM)*

- Developed and implemented a landing page and summary history page with seamless Flask API integration.
- Utilized MongoDB Atlas as the database and Samsun dataset from Hugging Face, achieving 80% accuracy in abstractive summarization.

## Projects

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**Assessing Water Quality Using Satellite Imagery** Sept 2023  
*Python, Machine Learning, Llama-2, Flask, QGIS*

- Forged 250+ Sentinel-2 satellite imagery for lake datasets to predict water quality using machine learning.
- Employed Llama-2-13b for report generation, achieving 70% precision in water parameter prediction.

**Personal Fitness Assistance** June 2023  
*Python, Machine Learning, Deep Learning, Django*

- Developed a real-time posture-correcting AI model with 80% accuracy using MediaPipe, enhancing user workout form.
- Included calorie tracking and activity level analysis for personalized fitness plans.

**Product Analysis Tool** Feb 2023  
*Python, Flask, MongoDB*

- Designed a market analysis tool with 60% accuracy on a dataset of 120+ facewash products.
- Utilized Random Forest and cosine similarity to generate performance insights based on user feedback.

## Skills

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**Technical skills:** Python, Java, C, SQL, HTML, CSS, Django, FastAPI, MongoDB, Machine Learning, LLM, Deep Learning, Remote Sensing

**Soft Skills:** Communication, Teamwork, Adaptability, Problem-Solving, Time management, Creativity, Public speaking, Teaching

## Seminar & Workshop

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### Smart India Hackathon 2022 Speaker - Mentorship & Guidance

Oct 2022

*Public Speaking, Mentorship, QNA, Guidance*

- Mentored 200+ junior students on the Smart India Hackathon (SIH) process, providing insights into our journey to becoming finalists.
- Addressed student's questions on SIH problem selection, project timelines, team roles, conflict management, and problem-solving strategies.

### Game Development with Python Workshop - Alegria

Jan 2024

*Python, Teaching, 2D game development, Coding workshop*

- Conducted a 2D game development workshop for beginners covering gaming concepts, components, level design, and game physics.
- Guided 50+ students in developing games with live game development by Pygame, followed by Q&A and insights on the future of game development.

## Publications

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### Patent - Application No: 202321037724

June 2023

*Published Patent for product market analysis software(HARIV)*

### Research Paper Published in [TIJER]

April 2023

**Title:** Application of remote sensing and GIS in monitoring water quality [🔗](#)

### Copyright - Registration Number: L-147095/2024

April 2023

## Certificates

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- ISRO AI/ML for Geodata Analysis [🔗](#)
- SIH Grand Finalist [🔗](#)
- Machine Learning Intermediate with Kaggle [🔗](#)
- CHIA Innovation Exhibition [🔗](#)