

# Yash Thakare

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## Summary

- Machine Learning Specialist with expertise in feature extraction (PCA, LDA, t-SNE), neural networks, and AI research.
- Delivered models with over 90% accuracy in stock price and crop yield prediction using Python, TensorFlow, and scikit-learn.
- Demonstrated leadership as Treasurer of AWS Cloud Club and as an AI intern at amasQIS.ai, optimizing AI workflows and mentoring peers.

## Work Experience

- **AI Intern**, amasQIS.ai (Remote, AI Domain) Mar 2025 – Present
  - Developed machine learning models using Isolation Forest to identify optimal green hydrogen production sites based on environmental and resource data.
  - Processed and transformed complex fuel cell time-series data into structured datasets for analysis and predictive modeling.
  - Designed and implemented RESTful APIs with FastAPI and MongoDB to provide multi-collection hydrogen and energy data for real-time analytics.
  - Created React components integrating OpenWeatherMap API to display interactive weather layers on geospatial maps.
- **Machine Learning Intern**, Placify Technologies, MP, India Jun 2024 – Aug 2024
  - Developed an MLP-based stock price prediction model, achieving 90% accuracy and reducing inference time by 30%.
  - Implemented and fine-tuned 10 ML algorithms (Decision Trees, Random Forest, SVM, XG-Boost), increasing classification F1-score by 15%.
  - Applied PCA, LDA, and t-SNE to 15,000+ records, reducing feature dimensionality by 60% while retaining 95% of variance.
- **Treasurer & Board Member**, AWS Cloud Club, VIT Bhopal Sep 2024 – Present
  - Managed a \$4,000 budget, coordinated events, and led member recruitment, increasing membership by 30%.
- **Campus Ambassador**, IIT-K Techkriti '24 Inter-Sem 2024
  - Executed marketing campaigns and workshops, driving a 30% increase in student engagement and a 50% boost in social media reach.

## Education

- **B.Tech in Computer Science & AIML**, VIT Bhopal University 2023 – 2027 (Ongoing)  
Relevant coursework: Machine Learning, Data Structures, Algorithms, Database Systems  
CGPA: 9.00
- **Class XII**, SSVPS Dhule 2021 – 2022  
Percentage: 76%
- **Class X**, RCS Vidyalaya 2019 – 2020  
Percentage: 97%

## Projects

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- **Feature Extraction Group Project** (Inter-Sem 2024)

- *Objective*: Enhance model accuracy through advanced feature engineering.
- *Methodology*: Applied PCA, LDA, and t-SNE to a dataset of 10,000+ samples using Python and scikit-learn.
- *Results*: Increased classification accuracy by 12% and reduced training time by 25%.

- **Crop Yield Prediction Model**

- *Objective*: Forecast crop yields to improve agricultural planning.
- *Methodology*: Leveraged Random Forest and Gradient Boosting on 50,000+ records.
- *Results*: Achieved 90% accuracy, providing actionable insights for resource optimization.

- **Misinformation Detection Research**

Jan 2025

- *Objective*: Detect nuanced misinformation patterns using entropy analysis.
- *Methodology*: Integrated Shannon entropy into NLP models processing 100,000+ social media posts.
- *Results*: Improved detection accuracy by 15%, enhancing content vetting processes.

## Technical Skills

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Python, TensorFlow, scikit-learn, yfinance, MATLAB, PCA, LDA, t-SNE, XGBoost, Random Forest, Pandas, NumPy, Matplotlib, NLTK

## Certifications

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NPTEL Cloud Computing 2025  
MATLAB Onramp Course (MathWorks)  
Google Cloud & Generative AI Study Jam 2024  
ISRO Geodata Processing  
Deep Learning in Ecology (IIRS)  
Tata Group Data Visualization  
IU Indianapolis Computational Data Science  
15+ Google Skill Badges (API Gateway, Cloud Storage, Vertex AI, etc.)

## Achievements

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- National CTF Team—Ranked top 60/160 (July 2024)
- District-level Kabaddi Player
- Qualified for Unstop Talent Park 2025, Round 2