

# MEGHA SONAWAT

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## SUMMARY

Final-year B.Tech Computer Science and Engineering (Artificial Intelligence & Machine Learning) student skilled in Python, React, and image classification. Seeking ML or software engineering roles to develop AI solutions.

## EDUCATION

<b>B.Tech, Computer Science &amp; Engineering (AI &amp; ML)</b>	Oct 2022 – Present
VIT Bhopal University, Bhopal   CGPA: 8.42/10	
<b>Class XII, CBSE</b>	2022
Geetanjali Olympiad School, Raipur   Percentage: 75%	
<b>Class X, CBSE</b>	2020
St. Patrick's Academy, Raipur   Percentage: 82%	

## TECHNICAL SKILLS

- Programming:** Python, C++, Java, SQL, JavaScript
- Machine Learning:** PyTorch, TensorFlow, scikit-learn, Transformers (HuggingFace), OpenCV
- Deep Learning:** CNNs, EfficientNet, DeBERTa, Image Classification, Text Classification
- Web Development:** React.js, HTML, CSS, Node.js
- Databases:** PostgreSQL, Firebase
- Tools:** Git, VS Code, Jupyter Notebook

## EXPERIENCE

<b>Machine Learning Intern</b>	May 2025 – Present
Rubick AI, Remote	
<ul style="list-style-type: none"><li>Built image and text classification pipelines using PyTorch, EfficientNet, and HuggingFace Transformers.</li><li>Developed realistic product shadow generation using OpenCV (mask extraction, blurring, shading) to enhance image quality.</li><li>Trained a DeBERTa-v3 text category model with improved accuracy through optimized tokenization and fine-tuning.</li><li>Created garment view classification model (6 classes) with EfficientNet and custom preprocessing.</li><li>Processed 5,000+ product images and large text datasets through cleaning, deduplication, and augmentation.</li></ul>	

## PROJECTS

### Finance Tracker with AI Budgeting Tips

- Built web app using OpenAI API to categorize 1,000+ expenses with budgeting tips.
- Integrated Finance API with React for real-time visualization.
- Tech Stack: React.js, JavaScript, HTML, CSS, Firebase (GitHub)

### Secrets – Password Manager

- Designed secure password manager with encryption for 100+ credentials.
- Used JavaScript, CSS, and Firebase for front-end and storage.
- Tech Stack: HTML, CSS, JavaScript, Firebase (GitHub)

### Fake News Prediction (NLP – Classification)

- Built ML model to classify news as real or fake using TF-IDF and Logistic Regression.
- Performed text cleaning, stopword removal, and TF-IDF vectorization.
- Achieved 94% accuracy; evaluated with confusion matrix and F1-score.
- Tech Stack: Python, scikit-learn, pandas, matplotlib (GitHub)

## CERTIFICATIONS

Privacy and Security in Online Social Media, NPTEL (Jan–Apr 2025) | Computer Vision, Vityarthi (Dec 2024) | Applied Machine Learning in Python, Coursera (Jul 2024) | Python Programming, LinkedIn Learning (May 2024) | Simulink Onramp, MathWorks (Mar 2024)