

# Tanishq Saxena

Software / ML Engineer

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## SUMMARY

Final-year B.Tech CSE student aspiring for ML or software engineering internships and jobs. Built and deployed ML models, and dashboards using Python, TensorFlow, Streamlit, and Flask. Experienced with and deployed project on streamlit Git-based workflows. Strong in DSA and backend logic.

## EDUCATION

JUET, Guna	2022 – Present
Ramakrishna Mission School (CBSE)	2020 – 2022
The Woodstock School (CBSE)	2009 – 2020

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, SQL, C

**Libraries/Frameworks:** TensorFlow, Streamlit, Flask, Keras, Scikit-learn, Pygame, Pytorch, Numpy, Pandas, HTML, CSS

**Tools:** Git, GitHub, MySQL, Jupyter, VS Code

**Concepts:** DSA, OOP, Operating System, ML, Deep Learning, NLP, Deployment

## PROJECTS

<b>Amazon Sentiment Analysis</b> <ul style="list-style-type: none"><li>Built a sentiment classifier using logistic regression and TF-IDF on Amazon reviews.</li><li>Preprocessed text data with NLTK; deployed the model using a Flask web app.</li><li>Visualized sentiment predictions through an interactive user interface.</li></ul>	<i>NLP, Flask, Machine Learning</i>
<b>GDB Visualizer</b> <ul style="list-style-type: none"><li>Parsed GDB trace logs to visualize memory and instruction flow.</li><li>Reduced debugging time by 30% through interactive error charts.</li></ul>	<i>Python, Plotly</i>
<b>Self-Driving Car Sim</b> <ul style="list-style-type: none"><li>Trained Q-learning agent with custom reward logic.</li><li>Improved model performance by 45% using experience replay and tuning.</li></ul>	<i>OpenAI Gym, DQL</i>

## EXPERIENCE

<b>Python Intern – Octant (Remote)</b> <ul style="list-style-type: none"><li>Developed 5+ automation scripts for log parsing and reporting, saving 40% dev time.</li><li>Worked in Agile sprints, maintained Git branches, and authored test cases.</li></ul>	<i>Feb – Apr 2025</i>
<b>Open Source Contributor – SSOC (JUET)</b> <ul style="list-style-type: none"><li>Contributed to modular Python utilities; improved runtime by 20%.</li><li>Collaborated on GitHub with commits, PRs, and issue-based workflows.</li></ul>	<i>Dec 2022</i>

## CERTIFICATIONS & ACHIEVEMENTS

- Finalist – Smart India Hackathon 2023 (Top 200/1000+ teams)
- 100 Days of Code – Python Bootcamp (Udemy)
- DSA in Python – Infosys Springboard

## EXTRACURRICULAR

- Represented JUET in football, cricket, and badminton tournaments.
- Organized sports events, leading teams and logistics; improved collaboration skills.