



NIKITA GOSWAMI

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Education

NMIMS University (3.64 CGPA/ 4)

Bachelor of Technology in Computer Engineering

Aug. 2022 – May 2026

Mumbai, Maharashtra

Relevant Coursework

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|----------------------------------|---------------------------|-------------------------|-------------------------------|
| • Data Structures and Algorithms | • Digital Logic Design | • Internet Technology | • Machine Learning |
| • Operating Systems | • Algorithms Analysis | • Systems Programming | • Object oriented programming |
| • Software Engineering | • Database Management | • Computer Architecture | |
| | • Artificial Intelligence | • Computer Networks | |

Experience

Frontend Developer

August 2024 – Present

IIT Ropar

IIT Ropar, Punjab

- Established a responsive and dynamic web application using Next.js and Tailwind CSS to create a one-stop destination connecting farmers, industry stakeholders, and logistics providers.
- Designed intuitive and reusable UI components, ensuring a seamless and user-friendly interface for diverse user groups.
- Translated complex Figma designs into pixel-perfect, production-ready code while maintaining visual and functional consistency.
- Optimized frontend performance using pnpm for dependency management and modern build tools, enhancing scalability.

Projects

Music Recommendation Project | *Pandas, NumPy, scikit-learn, Matplotlib, TensorFlow, Keras, Jupyter*

Notebook

- Developed a music recommendation system using a dataset comprising user-song interactions and song metadata. Implemented three recommendation techniques.
- Popularity-Based Recommendation:** Provided recommendations based on song popularity and user trends.
- Collaborative Filtering:** Utilized user-song interaction data to recommend songs based on similar users' preferences and song similarities.
- Content-Based Recommendation:** Recommended songs based on attributes and user preferences.

Face Detection Project | *Pandas, NumPy, scikit-learn, Matplotlib, TensorFlow, Keras, Jupyter Notebook*

- Implemented a comprehensive face detection system using OpenCV and dlib, implementing multiple detection techniques to identify faces, eyes, cars, clocks, and full bodies in images. Key tasks included:
- Detection Techniques:** Utilized Haar cascades for basic object detection and applied dlib's HOG (Histogram of Oriented Gradients) and CNN (Convolutional Neural Networks) for advanced face detection.
- Visualization:** Displayed detection results with bounding rectangles, using OpenCV and Matplotlib.

Technical Skills

Languages and Frameworks: Python, Java, C++, HTML, CSS, Tailwind CSS, JavaScript, React.js, Next.js, MongoDB, MySQL, Node.js, Angular.js

Developer Tools: VS Code, Eclipse, IntelliJ Idea, Jupyter Notebook

Certifications and Courses: Machine Learning Specialization awarded by Stanford University on Coursera:

Supervised Machine Learning: Regression and Classification

Unsupervised Learning, Recommenders, and Reinforcement Learning

Advanced Learning Algorithms: Decision Trees, Neural Networks, Deep Learning

Microsoft Azure Fundamentals: Describe Cloud Concepts

Version Control: Git and GitHub

Leadership / Extracurricular

Association for Computing Machinery

Executive

NMIMS University

I presented Python Programming Seminars for college students while serving in the ACM committee.

Participated in Cyber Cypher Hackathons.

I served as a volunteer in the community, helping underprivileged kids, providing them with grains and rice.