

RACHIT SINGH

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Objective

Final-year Computer Science student at MIET Meerut with hands-on experience in full-stack development, machine learning, and deep learning for computer vision. Seeking a software engineering or AI/ML role where I can contribute to building scalable, intelligent systems that deliver real-world impact.

Education

Meerut Institute of Engineering and Technology (MIET) 2022 – 2026

B.Tech, Computer Science Engineering Meerut, India

- Relevant Coursework: Data Structures & Algorithms, Machine Learning, Database Management Systems, Computer Networks

All Saints School 2020 – 2022

Intermediate (CBSE – PCM)

Technical Skills

Languages: Python, Java, JavaScript, HTML/CSS, SQL

Frameworks & Libraries: React.js, Next.js, Node.js, FastAPI, TensorFlow, Keras, OpenCV

Deep Learning & CV: CNN, U-Net, Transformer Architectures, Transfer Learning

Data Science: Pandas, NumPy, Scikit-Learn, Matplotlib, Tableau

Databases & APIs: MySQL, MongoDB, Google Analytics API, Facebook Ads API

Tools & DevOps: Git, Docker, Redis, Celery, VS Code, Google Colab, Arduino IDE

Experience

Software Developer Nov 2025 – Present

Novoguard LLC (Verified Care)

Remote — Sheridan, WY, USA

- Designed and implemented responsive web components and UI features to streamline clinic discovery and appointment booking workflows, improving end-user experience across the platform.
- Built and optimized RESTful APIs for clinic data management, search functionality, and user authentication, reducing API response latency through efficient query design.
- Collaborated with cross-functional teams to integrate third-party mapping and geolocation services, enabling location-aware search for 500+ listed clinics.

Projects

Satellite Image Segmentation | *Python, TensorFlow, Google Colab* | [View Project](#)

- Developed a terrain classification system leveraging CNN and U-Net deep learning architectures for satellite imagery analysis, achieving **92% accuracy** across diverse geographical regions.
- Built an automated preprocessing and inference pipeline incorporating data augmentation and transfer learning for robust and generalizable model performance.

Marketing Analytics & Campaign Optimization Platform | *Python, SQL, Tableau* | [View Project](#)

- Engineered an end-to-end attribution modeling system analyzing customer journeys across 10+ digital touchpoints with ML-driven marketing mix modeling and budget allocation.
- Built a predictive lead scoring model delivering a **78% improvement in ROI**; integrated Google Analytics and Facebook Ads APIs for automated campaign reporting (CTR, CPA, ROAS, LTV).

Prospera AI | *Next.js, Gemini API, Tailwind CSS* | [View Project](#)

- Built an AI-powered career counseling platform featuring intelligent recommendation algorithms and a personalized chatbot powered by the Gemini API.
- Architected the system for high concurrency, supporting **1,000+ simultaneous users** via Next.js server-side rendering, with an intuitive UI optimized for student career exploration.

Research

Satellite Imagery Environmental Monitoring | *Ongoing* — *MIET Meerut*

- Co-authoring a research paper on multi-sensor satellite image analysis using a hybrid **CNN-Transformer-LSTM** framework for environmental monitoring; responsibilities span model design, preprocessing pipeline development, and IEEE-formatted manuscript preparation.
- Collaborating with peers (Megha Sharma, Abhishek Verma, Rachit Sharma) and faculty supervisor at MIET Meerut.

Certifications

MongoDB University — CRUD Operations & Advanced Schema Design

Coursera (Google) — Tools of the Trade: Linux and SQL