

Sumit Singh Sengar

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OBJECTIVE

Aspiring engineering student passionate about AI and web development. Skilled in building predictive models and full-stack apps with Python, TensorFlow, and modern frameworks. Eager to learn, solve problems, and contribute to real-world projects..

EDUCATION

Madhav Institute of Technology and Science - Deemed University <i>BTech in Computer Science Engineering — SGPA: 7.70</i>	<i>Gwalior, MP</i> <i>2022 – 2026</i>
Kiddy's Corner Hr Sec School <i>Senior Secondary (Class XII)</i>	<i>Gwalior, MP</i> <i>2021</i>

PROJECTS

COVID-19 Detection Using Chest X-Ray <i>Tools: PyTorch, ResNet-18, OpenCV, NumPy, Pandas</i> <ul style="list-style-type: none">Developed a deep learning model using ResNet-18 to classify chest X-ray images as COVID-positive or negative.Implemented data preprocessing and augmentation techniques to improve model generalization.Designed a user-friendly UI application using Python	<i>2024</i>
Skin Disease Classifier <i>Tools: TensorFlow, CNN, ResNet, DenseNet, MobileNet, Scikit-learn, NumPy, Pandas</i> <ul style="list-style-type: none">Developed a multi-class skin disease classification model using deep learning techniques.Compared multiple architectures, including CNN, ResNet, DenseNet and MobileNet, to determine the best-performing model.Conducted extensive accuracy and F1-score evaluations to analyze model effectiveness.	<i>2025</i>
Development of an LLM for Image Description <i>Tools: Langchain, Streamlit, Google GEN-AI, API, OpenCV, Pandas</i> <ul style="list-style-type: none">Developed an LLM model to describe the unseen images uploaded on the model in real time.Frontend was developed using streamlit and run on Local Host.Designed a user-friendly UI application using Python for mobile phones.	<i>2024</i>

TECHNOLOGIES & SKILLS

Languages: C/C++, Python, SQL, HTML, CSS, JavaScript, Git/GitHub, Postman , Google Cloud.
Frameworks: Tensor Flow, PyTorch, Scikit-Learn, OpenCV, Numpy , Pandas, React.js , Next.js , Node.js , Express.js , MongoDB
Software, Platforms & IDEs: VS Code, Jupyter Notebook, Google-Colab, TeX-Studio, PowerBI , Canva.
Soft & Professional Skills: Critical Thinking, Conflict Management, Teamwork skills/Management.

ACHIEVEMENTS

- Actively practicing coding on platforms like LeetCode (100+ questions) and HackerRank, solving algorithm and data structure problems, and participating in coding contests.
- Ongoing certifications and courses: Machine Learning and Deep Learning on Coursera.
- Ranked in the top 50 at the Innovate 2025 Hackathon, hosted by MANIT and Thapar University..
- Successfully completed a certified 30-day coding challenge focused on the fundamentals of full-stack web development.