

Gursharen Kaur Suri

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<https://github.com/GursharenKaur>

Summary

Computer Engineering student skilled in Full Stack Development. Experienced in building scalable applications using modern frameworks and driven by a passion for secure, user-focused digital innovation. Hands-on expertise in Machine Learning. Familiar with Git, Agile (Scrum), and collaborative team environments. Eager to contribute to digital transformation and innovation through cutting-edge technology.

Technical Skills

- **Framework & Tools:** React, Node.js, Express.js, OpenCV, Selenium, Oracle SQL
- **Machine Learning & Deep Learning:** Shifted Window(SWIN) Transformer, Semantic Segmentation
- **Coursework:** Software Engineering (Agile Development, Scrum), AI, Computer Networks, DSA
- **Others:** Git, Github, Excel, Data Analysis, Data Structures, User Research, Technical Writing, Problem-solving

Projects

Project	Technologies
AI-based Skin Disease Detection System	ML, Swin Transformer
• Designing and fine-tuning a Swin Transformer deep learning model for accurate classification of skin diseases	
• Implementing efficient image preprocessing pipelines including resizing, normalization, and tensor conversion to optimize model inference performance	
• Working on software diagrams for proper end-to-end implementation	
Road Segmentation from Satellite Images	ML, DL, CNNs
• Implemented and compared multiple architectures including U-Net Lite, U-Net Full, U-Net++, DeepLabV3+ (ResNet-50), HRNet-Small, and SegFormer-B0	
• Built a custom data preprocessing pipeline including resizing, normalization, binary mask generation, and data augmentation using Albumentations	
• Optimized training for limited GPU memory using mixed-precision training and efficient batch sizing	

Work Experience

Research Intern , Thapar Institute of Engineering and Technology	June'25 - Ongoing
• Working Under Dr. Neeraj Kumar and Dr. Sandeep Verma, Computer Science Department, TIET	
• Conducting comprehensive review on underwater sensor networks, analyzing advancements in communication protocols and 3D network topologies	
• Enhancing skills in scientific writing, critical analysis, and data interpretation, collaborating with domain experts throughout the research process	

Education

B.E. Computer Engineering - Thapar Institute of Engineering and Technology	2023-2027
CGPA: 8.57/10	
XII - Swami Sant Dass Public School, Phagwara	2023
CBSE 94.2%	

Organizational Roles

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- **Technical Secretary** - Thapar Venture Club, 2025-26
 - **Overall Content Coordinator** - E-Summit'25, Thapar Venture Club
 - **Executive Committee Member** - Thapar Food Festival, 2025