

SATWIK SHRESHTH

Software Developer | Machine Learning Enthusiast

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PROFESSIONAL SUMMARY

Motivated and detail-oriented MCA final-year student from Sikkim University with a strong foundation in software development, machine learning, deep learning, IoT, and remote sensing applications. Seeking an entry-level opportunity to apply computational and programming skills in data processing, system simulation, and real-world problem solving, while gaining hands-on experience in applied computer science and emerging technologies.

EDUCATION

Master of Computer Applications (MCA) – Pursuing <i>Sikkim University, Sikkim</i>	<i>Sept 2024 – Present</i> CGPA: 8.25 (1st Year)
Bachelor of Computer Applications (BCA) <i>Magadh University, Bodhgaya, Bihar</i>	<i>July 2019 – Apr 2022</i> 70.06%
Intermediate of Science (BSEB) <i>A.M. College, Gaya</i>	<i>2017 – 2019</i> 66%
Matriculation (JAC) <i>S.S.H.S. Pandeypura</i>	<i>2016 – 2017</i> 81%

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, HTML, CSS

Machine Learning & Deep Learning: CNN, U-Net, Random Forest, Image Processing, Model Training & Deployment

Data & GIS Tools: Google Earth Engine (GEE), QGIS, Satellite Image Analysis

Databases: Oracle 11g

Developer Tools: Git, GitHub, Jupyter Notebook, Google Colab, VS Code, Streamlit

Core Competencies: Software Development, Data Analysis, Image Classification, ML/DL, GIS Modeling, IoT Systems

WORK EXPERIENCE

Technical Representative <i>Bytes Softech Pvt. Ltd. (C-DAC ATC Delhi)</i>	<i>Feb 2024 – Aug 2024</i> Delhi, India
<ul style="list-style-type: none">– Supported technical operations for national-level examinations including AFCAT, Agniveer Vayu, and ICG– Handled system setup, software configuration, database management, and real-time troubleshooting– Coordinated with technical teams to ensure smooth and secure examination execution	

INTERNSHIP EXPERIENCE

Remote Sensing and GIS Intern <i>India Space Academy</i>	<i>Remote</i>
<ul style="list-style-type: none">– Conducted satellite image analysis for land cover classification and water body detection projects– Applied GIS-based preprocessing, data visualization, and classification algorithms– Developed expertise in satellite data interpretation and remote sensing workflows	

PROJECTS

Image-to-Sketch Generation using U-Net CNN
<ul style="list-style-type: none">– Developed a deep learning pipeline to convert RGB photographs into pencil-style sketches using U-Net architecture– Implemented MAE-SSIM loss function and deployed the model via Streamlit for real-time inference
Satellite-Based Land Use and Land Cover Classification
<ul style="list-style-type: none">– Built a Random Forest classifier for multi-class land use pattern classification from satellite imagery– Applied remote sensing techniques and feature engineering to improve classification accuracy

NDWI-Based Water Body Mapping

- Applied Normalized Difference Water Index (NDWI) algorithm to detect and map water bodies from satellite data
- Utilized Google Earth Engine (GEE) and QGIS for data processing and geospatial analysis

Personal Portfolio Website

- Designed and developed a fully responsive portfolio website using HTML, CSS, and JavaScript

CERTIFICATIONS

- **Computer Aided Decision Systems using Big Data Analytics** – NPTEL
- **Ethical Hacking** – NPTEL
- **Internet of Things** – NPTEL

LEADERSHIP EXPERIENCE

- **Team Representative, Bihar Contingent (NSS):** Represented Bihar at the 23rd National Youth Festival (Lucknow, 2020) and National Integration Camp (VBU, Hazaribagh), engaging in cultural exchange and promoting national unity.
- **Cultural Committee Member, SUSA:** Organized and coordinated multiple cultural events at Sikkim University.
- **NSS Volunteer:** Actively served in social service initiatives and community development programs under NSS.