

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
Sikkim University, Sikkim

Sept 2024 – Present
CGPA: 8.25 (1st Year)

Bachelor of Computer Applications (BCA)
Magadh University, Bodhgaya, Bihar

July 2019 – Apr 2022
70.06%

Intermediate of Science (BSEB)
A.M. College, Gaya

2017 – 2019
66%

Matriculation (JAC)
S.S.H.S. Pandeypura

2016 – 2017
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

Feb 2024 – Aug 2024

Bytes Softech Pvt. Ltd. (C-DAC ATC Delhi)

Delhi, India

- 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

Remote

India Space Academy

- 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

- 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

- 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.