

# Skand Tripathi

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## EDUCATION

B Tech (Electronics & Communication Engineering)	2021-2025	MMMUT, Gorakhpur	7.35/10.0
Class XII (CBSE)	2021	Academic Global School	83.6%
Class X (CBSE)	2019	GN National Public School	96.0%

## PROJECTS

### Medical Recommendation Project: [Link](#)

- Designed and implemented a user-friendly web application for the medicine recommendation system.
- Implemented the Support Vector Classification (SVC) algorithm to analyze user inputs and generate accurate medication recommendations, leveraging its effectiveness in handling high-dimensional data and ensuring precise classification.
- Developed the web application using Flask to provide a streamlined interface for users, integrating the SVC-based recommendation system into a scalable and user-friendly platform.

### Customer Personality Analysis: [Link](#)

- Conducted Exploratory Data Analysis (EDA), feature engineering, and data preprocessing, followed by applying unsupervised learning methods like PCA and clustering (e.g., Bisecting K-Means) to identify distinct customer groups.
- Build an interactive web dashboard using Streamlit and Plotly to visualize clusters, analyze customer profiles, and provide insights to help businesses tailor products and marketing strategies for each customer segment.

## Internships/Experience

- Deep Dive Consulting: [Data Science Intern](#)** Feb 2024- May 2024
  - Automated the extraction of Google Maps reviews using Selenium and BeautifulSoup, compiling data such as user reviews, ratings, and comment likes, followed by extensive text preprocessing and cleaning.
  - Built n-gram models for better contextual understanding, visualized key phrases with WordCloud, and applied Latent Dirichlet Allocation (LDA) for topic modeling to identify underlying themes in the reviews.
  - Utilized t-SNE for dimensionality reduction and pyLDAvis for interactive topic exploration, enabling meaningful insights to guide school improvement strategies.
- Space Applications Centre, ISRO: [Research Intern](#)** June 2024- Aug 2024
  - Gained hands-on experience with **QGIS** and **ArcGIS** to preprocess satellite images and created annotated datasets specifically tailored for identifying and segmenting building footprints.
  - Implemented and trained deep learning models such as **UNet**, **Attention UNet**, and **Resnet 50** to segment building footprints accurately.
  - My work involved fine-tuning these models to distinguish building structures from backgrounds and other land features across urban landscapes. Evaluated and refined model accuracy, contributing to precise building footprint segmentation.

## SKILLS

**Technical:** Python, C, Arduino, Panda, Seaborn, Scikit Learn, Tensorflow, Open-CV, SQL, Digital Image Processing, NLTK

**Curriculum:** Digital Electronics, Analog Integrated Circuits, Electronic Devices and Circuits, Data Structure & Algorithms, DBMS

**Certificates:** Internet of Things, NPTEL (Elite): [Link](#)  
SQL for Data Science (UC DAVIS): [Link](#)  
Electrical Measurements and Electronic Instruments, NPTEL: [Link](#)  
IOT Developer Summer Training, NIELIT: [Link](#)  
Advance Learning Algorithms, Coursera: [Link](#)  
Supervised Machine Learning, Coursera: [Link](#)

### Interests:

- ML, DL, NLP, Big Data analytics for IOT
- Cloud Computing, Embedded Systems, EEG Analysis, Data Visualization

## POSITION OF RESPONSIBILITY

- Played a key role in the conduction of placement drives for 2024 batch and placement of 860 students.
- Member Organizing Team, **TechSrijan-23** April 2023
- Co-Ordinator, ‘HackFest’ – Hackathon Event of MMMUT, Gorakhpur Feb 2023

## EXTRACURRICULAR

- Executive Member at **IEEE SB-MMMUT**
- Secretary at **Training and Placement Cell**.