

Satyam Singh

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EDUCATION

National Institute of Technology Nagaland

B.Tech in Computer Science

CGPA: 9.82

Chumukedima, Nagaland

Expected Graduation, May 2027

PROFILE SUMMARY

Targeting **Data Scientist** roles with an organization of high repute with a scope of improving knowledge and further career growth.

- Python (**OPPs, Flask, Scikit-learn, TensorFlow, OpenCV, NumPy, Pandas**) with a strong background in building scalable applications.
- Demonstrated ability to manage and deliver projects **efficiently**, from initial planning and design to final deployment and maintenance.
- Committed to **staying updated** with the **latest industry** trends and technologies, continuously enhancing skills to provide innovative solutions.

PROJECTS

Credit Scoring Model Development

June 2023- July 2023

Tools: NumPy, Pandas, Scikit-learn, Flask

Skills: Machine Learning, Data Preprocessing, Feature Engineering

A credit scoring model using machine learning predicts the likelihood of a borrower repaying a loan based on financial and Behavioral data.

Responsibilities:

- Developed the front-end using HTML and CSS, creating a responsive and intuitive user interface.
- Implemented Scikit-learn Pipelining to fasten the process and to avoid errors.
- Managed the backend entirely with flask and predict the credit score from model.
- Performing EDA, Feature Engineering, Hyperparameter Tuning, ensemble methods and Gradient Boosting Classifier is best Algorithm with accuracy of 80%.

Movie Recommender System

May 2023 – June 2023

Tools: NumPy, Pandas, Scikit-learn, Flask,

Skills: Natural Language Processing (NLP), Machine Learning, Data Preprocessing, Feature Engineering

Developed a personalized movie recommender system to enhance user experience by providing tailored movie recommendations based on user preferences and historical data.

Responsibilities:

- Designed a Flask-based backend to manage recommendations and serve API responses efficiently.
- Preprocessed movie metadata using NLP techniques such as tokenization, stemming, and vectorization (TF-IDF).
- Implemented Scikit-learn for model training and evaluation, achieving high accuracy and relevance in recommendations
- Developed a clean and user-friendly web interface, ensuring seamless navigation and interaction.
- Integrated APIs for fetching movie details, including ratings and posters, for an engaging user experience.

SMS Spam Classifier

May 2023- June 2023

Tools: NumPy, Pandas, Scikit-learn, Flask

Skills: Natural language Processing (NLP), Machine Learning, Data Preprocessing, Feature Engineering

Developed an SMS Spam Classifier to identify and filter spam messages, enhancing user communication by reducing unwanted disruptions.

Responsibilities:

- Built a Flask-based backend for efficient message classification and API response handling.
- Applied Natural Language Processing (NLP) techniques, such as text tokenization, lemmatization, and TF-IDF vectorization, for preprocessing SMS data.
- Trained a Naive Bayes classifier and ensemble methods using Scikit-learn, achieving high accuracy in spam detection
- Conducted exploratory data analysis to understand data patterns and improve model performance.
- Designed a user-friendly interface for users to input and classify SMS messages in real time.

ACADEMIC ACHEIVEMENTS

- Assistant Coding Secretary at NIT Nagaland, actively involved in hosting tech fests like Ekarikthin and other coding-related events.
- Participated in a one-day program on cutting-edge technology, expanding knowledge of the latest advancements in the field.
- Completed machine learning, deep learning, and object detection projects, with a focus on practical applications and advanced techniques

SKILLS

Programming: Python, HTML/CSS, SQL, C, Java

Library: Pandas, NumPy, Scikit-learn, Keras, TensorFlow, Matplotlib, Seaborn, OpenCV, Flask, SQL Alchemy, Beautiful Soup, Genism

Core Skills: Machine Learning, Deep Learning, Object Detection, Data Structures, DBMS, Web Development, Artificial Neural Network (ANN), Convolutional Neural Network (CNN), Recurrent Neural Network (RNN), Long Short Term Memory (LSTM), Gated Recurrent Unit, Bidirectional RNN, Natural Language Processing (NLP)

Tools: PyCharm, Git, Bootstrap, GitHub, Kaggle, VS Code

Certificates/ Badges

- GitHub Foundation - GitHub.
- Machine Learning with Python Level -1 – IBM
- Python, Problem Solving – Hacker Rank
- Introduction to Programming Using HTML/ CSS – Cognitive Class
- Deep Learning (ANN, RNN, CNN, GRU, Bidirectional, LSTM, Transformer) – Cognitive Class
- 100 days of Machine Learning / Deep Learning – Campus X