

Sumit Kumar

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Internship

Machine Learning & NLP Intern

June 2024 - July 2024

CipherSchools

- Worked on data science and machine learning projects, implementing supervised (linear regression, logistic regression, decision trees, random forests, SVMs) and unsupervised learning algorithms (k-means clustering, hierarchical clustering, PCA).
- Developed a chatbot using NLP and chatbot frameworks, designing, training, and integrating it with Python and web applications to enhance user interaction.

Admission Counselor

June 2023 - July 2023

Lovely Professional University

- Demonstrated strong leadership by organizing and managing counseling sessions effectively.
- Enhanced communication abilities through consistent engagement with diverse student groups.

Projects

Chatbot App / Python

July 2023 - Aug 2023

- Created a interactive chatbot using NLP techniques, integration techniques allowing chatbot to interact with external systems and databases.
- Utilized Python libraries such as pandas and numpy, optimizing data processing efficiency by **80%**.
- Achieved a **60%** improvement in chatbot response accuracy through fine-tuned NLP models.
- Github Repository Link: <https://github.com/sumit18950/Python-Chatbot>

Image Classification Project / Python

Feb 2023 - March 2023

- Analyze images using python libraries, edge detection and object recognition, constructed a neural network, trained the model.
- Reduced model training time by **50%** using TensorFlow optimizations.
- Increased processing efficiency by **70%** through NumPy-based matrix operations.
- Github Repository Link: <https://github.com/sumit18950/image-classification>

Certificates

Python, Data Science & Machine Learning Integrated

August 2024

CipherSchools — Certificate Link

Responsible and Safe AI Systems

October 2024

NPTEL — Certificate Link

Mastering Data Structures and Algorithms using C and C++

November 2023

Udemy — Certificate Link

Technical Skills

Languages: Java, R programming, SQL, Python

Technologies/Frameworks: PowerBi, Tableau, Hadoop, NumPy, Pandas, Git, GitHub, Jupyter Notebook

Skills: Data Structures and Algorithms, Problem-Solving, Scripting in Python, NLP

Education

Lovely Professional University

2022 – 2026

Computer Science and Engineering — CGPA: 7.15

Jalandhar, Punjab

Divya Bhaskar Public School

2020 – 2022

12th with Science — Percentage: 80%

Bhojpur, Bihar

D.A.V Public School

2019 – 2020

10th with Science — Percentage: 82%

Rohtas, Bihar