

# GOUTAM KUMAR SAH

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## Education

### Indian Institute of Technology Patna

Bachelor of Science in Computer Science and Data Analytics

July 2023 – August 2026

8.76 cpi, (present)

## Skills Summary

**Languages & Frameworks:** Python, C, SQL, HTML, CSS, JavaScript, Flask

**Developer Tools:** Git (Proficient), GitHub, VS Code, MySQL Workbench, Google Colab

**Concepts:** Data Structures, DBMS, OOPS, Machine Learning, Deep Learning

**Interpersonal Skills:** Communication skills, Analytical Thinking, Problem Solving, Teamwork

## Projects

### Capstone Project (Team) | Python, Machine Learning, Google Colab, HTML, CSS, Flask

- Developed an e-commerce security prediction website where users can check password strength, detect spam emails, and check for credit card fraud.
- Built machine learning models for each checker (password strength, spam email detection, credit card fraud detection) and trained them on relevant datasets.
- Integrated the models into the website using Flask, providing real-time predictions for users.
- Deployed the website on Render, ensuring accessible and secure functionality.
- [\[Project Link\]](#)

### Prompt-to-3D | Blender, Python, Natural Language Processing (NLP)

- Built an intuitive tool to generate 3D models in Blender from natural language prompts, making 3D design accessible to non-technical users.
- Key Features:** Text-to-model conversion, Blender Python API integration, user-friendly CLI, and natural language understanding.
- Utilized NLP techniques to interpret user input and automate 3D modeling tasks within Blender's environment.
- [\[Github Link\]](#)

### Loan Approval Prediction | Python, Pandas, Numpy, Scikit-learn

- Built a machine learning model to classify loan applications as approved or denied based on applicant features.
- Conducted Exploratory Data Analysis (EDA) using Python libraries (Pandas, Numpy) to understand data patterns and inform feature selection.
- Performed feature selection techniques and trained the model to enhance prediction accuracy and support effective loan approval decision-making.
- [\[Github Link\]](#)

## Extracurricular Activities

- Member**, Technology Club— Hybrid Programs, IIT Patna  
Participated in organizing and contributing to hybrid tech events and coding competitions. Collaborated with team members to drive innovation in online-offline integrated technical programs.
- Participant**, Hack N Tech Hackathon, IIT Patna  
Secured 8th position for developing *Prompt-to-3D*, a tool that generates 3D models in Blender using natural language prompts. Showcased NLP integration with Blender's Python API to simplify 3D modeling for non-technical users.

## Achievements

- Certificate in Geodata Sensing in Cybersecurity  
*Indian Space Research Organisation (ISRO)* — November/December 2023  
[View Certificate](#)
- SQL(Basic) - HackerRank  
*Issued: December 18, 2024*  
[View Certificate](#)