

# Shantanu Gupta

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## EDUCATION

### IIIT Naya Raipur

B.Tech in Computer Science and Engineering

CGPA: 8.41/10

Raipur, Chhattisgarh

November 2022 – Present

### Swami Vivekananda Senior Secondary School

CBSE 12th - 92.4%

### Relevant Courses

Data Structures and Algorithms, Machine Learning, Cryptography, DBMS, AIML, OOPS, Operating Systems, IoT

Raipur, Chhattisgarh

July 2022

## PROJECTS

### Ethereum Based Energy Trading | Web3, Solidity

January 2025 – April 2025

- Developed a decentralized energy trading platform on Ethereum, enabling secure and transparent peer-to-peer energy transactions for over 500 users.
- Implemented an automated matching algorithm in Solidity smart contracts, achieving 95% accuracy in real-time balancing of energy supply and demand.
- Designed intuitive user interfaces with React.js, increasing user engagement by 40% through clear visualizations and seamless blockchain interactions.

### Brain Tumour Classification using SpatioSpatial Models | Deep Learning

July 2024 – December 2024

- Trained a Spatio-temporal model as a Spatio-spatial model on around 1500 different healthy and glioma MRI images of brain.
- Built a Res-Net(2+1)D model that enhanced the classification accuracy, resulting in a 30 percent increase in accuracy compared to regular 3-D models.
- Implemented advanced data augmentation techniques and pre-processing pipelines, including normalization to enhance model robustness and ensure reliable classification outcomes.

### Applicant Tracker System | NLP, Node.js

January 2024 – May 2024

- Built a full-stack web application using Node.js and React to filter resumes according to requirements.
- Constructed and refined a machine learning algorithm that enhanced candidate screening efficiency, resulting in a 30 percent reduction in time spent on initial resume reviews.
- Designed an AI-driven resume parser that automated the extraction of relevant information, increasing data processing speed by 50 percent and supporting the recruitment team in managing a growing applicant pool.

### Social Media Sentiment Analysis | Machine Learning, React, Flask

August 2023 – December 2023

- Created an NLP based machine learning model based on more than a 1000000 comments, tweets and reviews to detect user sentiments on Twitter, YouTube and Amazon.
- A full stack web application is made using React and Flask where the user can input the comment and can get the real time sentiment analysis for each of the three platforms separately.
- Added multi-language support by using Google Translate API which enables translation from 243 languages.

## TECHNICAL SKILLS

**Languages:** C/C++, Python, JavaScript, SQL ,HTML/CSS

**Frameworks/Technologies:** Sci-Kit Learn, Pandas, NumPy, TensorFlow, Git, Linux, MongoDB, PostgreSQL, Node.js, React, Socket Programming, Docker, Jupyter

## CERTIFICATIONS

**Stanford Online:** Machine Learning Specialization by Andrew Ng

**Cisco:** JavaScript Essentials 1, JavaScript Essentials 2

**Forage:** J.P. Morgan Chase Software Engineering Virtual Internship

## ACHIEVEMENTS

- Secured 3rd position in DataPunk ML Contest at IIIT Naya Raipur.
- Secured 35th rank out of 3587 competitors in Kaggle Playground Series Competition.