Shantanu Gupta

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EDUCATION

IIIT Naya Raipur   Raipur, Chhattisgarh
B.Tech in Computer Science and Engineering   *November 2022 – Present*
CGPA: 8.33/10

Swami Vivekananda Senior Secondary School   Raipur, Chhattisgarh
CBSE 12th - 92.4%   *July 2022*

Relevant Courses
Data Structures and Algorithms, Machine Learning, Cryptography, DBMS, AIML, OOPS, Operating Systems, IOT

PROJECTS

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
- Developed 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.
- Developed a full stack web application 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.

Smart Cradle and Baby Monitoring System | *Raspberry Pi and Python*   March 2023 – July 2023
- Designed and built a baby crib containing sensors like accelerometer, humdity and temeperature sensor to monitor the baby.
- A camera trained using a CV algorithm trained on more than 10000 baby pictures was used to detect baby's presence and a mailing system was used to notify of any discrepancies.
- Raspberry Pi acted as a control hub for the complerte system and the code was written in Python.

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, SQL ,HTML/CSS
Frameworks/Technologies: Sci-Kit Learn, Pandas, NumPy, TensorFlow, Git, Linux, Node.js, React, Socket Programming, 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 competitiors in Kaggle Playground Series Competition.