or TECHNOLOGY

PRIANSH GANGRADE | 24CS60R13

COMPUTER SCIENCE AND ENGINEERING

EDUCATION			
Year	Degree/Exam	Institute	CGPA/Marks
2026	M.TECH	IIT Kharagpur	8.07 / 10
2023	B.TECH(CSE)	SRM UNIVERSITY	9.38 / 10
2019	HSC	Kendriya Vidyalaya ONGC Vadodara	80.2%
2017	SSC	Kendriya Vidyalaya ONGC Vadodara	9.8 / 10

INTERNSHIPS

Web Development Intern ,Imagica Health | May '25 - July '25

- Developed **RESTful** APIs using **Node.js** and **Express** to effectively manage and process patient data.
- •Ensured smooth, reliable, and secure integration between the backend services and the frontend.
- •Integrated MongoDB for healthcare data storage and retrieval, improving query efficiency and response time.
- Articulated API documentation and Postman test collections for easier system testing and developer onboarding.

PROJECTS

Image Captioning Using Transformers

Deep Learning | Prof. Pawan Goyal | IIT Kharagpur | Apr '25 –May '25

- Developed an image captioning pipeline (ViT+GPT-2) using a preprocessed dataset of 5.7K image-caption pairs.
- Evaluated model performance with **BLEU**, **METEOR**, and **ROUGE-L** metrics, achieving strong results.
- •Benchmarked against SmolVLM (zero-shot) and ran occlusion robustness tests, logged results in CSV.
- Fine-tuned **BERT-based** to classify captions from two generative models, achieving **99.7% accuracy** and macro F1.

BERT-based Misinformation Detection for Social Media

Design Lab | Prof. Niloy Ganguly | IIT Kharagpur | Mar '25 –Apr '25

- Engineered a data preprocessing pipeline for 10,600 social posts, removing textual noise to improve model training.
- •Built a COVID-19 fake news classifier using PyTorch, achieving **96.7% accuracy** and a **0.97 Macro F1-score**.
- Fine-tuned and evaluated three **BERT models** via **hyperparameter tuning** to identify the best architecture.

Personalized Actor Recommendation System using Singular Value Decomposition (SVD)

Data Analytics Lab | Prof. Abhijnan Chakraborty | IIT Kharagpur | Sept '24 –Oct '24

- Curated TMDb movie—cast data using requests, **BeautifulSoup** and fetching **20k** records to build actor features.
- Trained and tuned a collaborative filtering model (Surprise SVD) via GridSearchCV, and deployed the best model.
- •Evaluated ranking performance using Precision@5, Recall@5, and NDCG@5 on an 80/20 split with 87% precision.

Ensemble-Based Threat Prediction for Demographic Data

Data Analytics | Prof. Abhijnan Chakraborty | Ensemble Learning | Aug '24 – Sept '24

- Preprocessed a dataset of **30k** records and utilized **Seaborn** for visualization, analysis, and model comparison.
- Implemented an ML classifier using custom Naive Bayes and scikit-learn models (SVM, KNN, Decision Tree).
- Engineered a custom majority-vote ensemble framework, achieving 83% final system accuracy.

COURSEWORK INFORMATION

Machine Learning | Data Analytics | Algorithm Design & Analysis | Database Management System | Data Structures | Operating System | Deep Learning | High Performance Computing Architecture

SKILLS AND EXPERTISE

Languages &Tools: C/C++,Python,SQL,Jupyter Notebook/Kaggle, Postman, Visual Studio, GitHub. **Libraries/Frameworks**: Pandas, Numpy, Matplotlib, sckit-searn, PyTorch, NLTK, C++ STL,seaborn.

ML Techniques: Regression, Clustering, SVM, Decision Tree.

AWARDS AND ACHIEVEMENTS

- Secured AIR 267 (99.78 percentile) in GATE 2024, also qualified in 2022, 2023 and 2025.
- Secured International Rank 6722 in SOF National Science Olympiad.
- Database Management Essentials by University of Colorado from Coursera.

POSITIONS OF RESPONSIBILITY

Programming & Data Structures Tutorial and Laboratory (PDS) CS19001

Conducted tutorials on PDS basics and graded assignments for a class of 205 students.

EXTRA CURRICULAR ACTIVITIES

- Swimming: Secured 1st in 200m IM and 2nd in 400m freestyle at the KVS Regionals.
- Learning and understanding about Geopolitical Affairs.

!Self declared by the student, CDC could not verify the relevant documents