SHREYA GUPTA

3rd Year B.Tech | shreya.gupta.0624@gmail.com | +91 9871800624 | shreyagupta.me | LinkedIn | Github

Education
- **Vellore Institute of Technology, Vellore | Sep 2021 – Jul 2025**
  B. Tech Computer Science – **CGPA: 9.73**
- **St. Thomas School, NCR, Delhi**
  CBSE – **12th: 97.6% | 10th: 97.8%**

Projects
- **LexiGuess** ↗ | Trexquant | Aug 2023 | Python, Numpy, Sklearn
  Decision tree classifier model developed using Python to play the game of Hangman
- **Brain Tumor Classification Models** (*in pipeline*) | SENSE, VIT | 2023 | Python, Keras, Tensorflow, Matplotlib, Pillow, OpenCV
  Four class brain tumor classification (pituitary, glioma, meningioma and notumor) models developed using VGG16, VGG19, DesnseNet120 and MobileNetV2 architectures.
- **CineFlix** ↗ | Jun 2023 | Python, NLTK, Numpy, Pandas, Sklearn, Pickle
  TMDB API based system to provide personalized movie recommendations built using Scikit-learn, PyTorch, SciPy, Pickle, etc
- **ChatSense** ↗ | Jun 2023 | Python, Seaborn, Matplotlib, PyTorch, Numpy, Pandas
  Python based statistical analysis and visualization application to analyze WhatsApp chats
- **PortFolio** ↗ | May 2023 | HTML, CSS, Bootstrap, Javascript, Typescript, Django, MySQL
  Full Stack responsive website showcasing personal details and achievements
- **VisionVortex** ↗ | Feb 2022 | Python, OpenCV, Scikit-image, Pillow
  YOLO-model based Python application to detect and predict the name of an uploaded image (along with numerous input validations)
- **EventMailer** ↗ | Google Developers Student Club, VIT | Feb 2022 | Python, SMTP, Numpy, Pandas
  Python application to send birthday invites and wishes via email to friends with details imported from a CSV file
- **SDPV** ↗ | SHAASTRA 2022, IITM
  Idea of Self-Destructing Phage Vaccination (SDPV) developed as an alternative to current approaches of treating viral diseases.
  Won 2nd position in BIOGEN Ideation Challenge(15k), organised by IIT, Madras
- **UNIFSTER** ↗ | Alpha Bio Cell, VIT | Jan 2022
  Ideation for a device to effectively treat metallic waste generated in healthcare industry, as an alternative to traditional waste incinerators.
  Won 1st position in BHOOMI Hackathon(17k), organised by Alpha Bio Cell, VIT, Vellore sponsored by Cambrionics Life Sciences
- **InsightfulX** ↗ | Dec 2022 | R
  R codes for data analysis and pre-processing using statistical functions (regression, hypothesis testing, coefficients of variation, etc)

Skills
- **Course Work**: Data Structures and Algorithms, DBMS, OOPs, Information Security & Audit Analysis
- **Course Work** (in pipeline): ML @ Andrew Ng, Stanford University, Security Analyst Training @ NSDC, VIT
- **Programming Languages:** Python (4 ★ Hackerrank), Java (3 ★ Hackerrank), R, C++, C, MATLAB
- **Data Structures and Object-Oriented Programming:** Java, C++
- **Machine Learning Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, SciPy, Pickle
- **Convolutional Neural Network (CNN) Models:** VGGNet, DenseNet, MobileNet
- **Image Processing:** Pillow, OpenCV, Scikit-image, SciPy, SimpleITKt
- **Object Detection Models:** YOLO (You only Look Once)
- **Data Analysis and visualization:** Pandas, NumPy, Matplotlib, Seaborn, Core-R
- **Full Stack Web Development**: HTML, CSS, Bootstrap, Django, Flask, Streamlit, MySQL
- **Databases:** Oracle SQL, MySQL, NoSQL
- **Development Tools:** VsCode, Jupyter Notebook
- **Networking and Security tools:** Cisco Packet tracer, Wireshark, John – the ripper, ngrok, steghide tool

Achievements
- **VIT Branch Topper & Merit Scholarship (14K) - 2021 and 2022**
- **Class 12th (2021)**
  School Topper, JEE Mains (93%ile/63k), NEET (95%ile/78k), NEST (98%ile/227)
- **Class 10th (2019)**
  School Topper, Merit Certificate (Maths), SOF Olympiads–Int. Rank–Maths (582), Science (450)

Extra-Curriculars

- **Programme Representative (PR) | Jan 2022 – present**
- **Fifth Pillar Club | Jan 2023 - present**
  Organized Socio-Political Treasure hunt in Rivera (Cultural Fest, VIT)
- **Society of Industrial and Applied Mathematics | Mar 2022 – present**
  Coordinated Maths Premier League (MPL) during Gravitas (Tech Fest, VIT)
- **Sigma-Xi | Mar 2022 – present**
- **Scholastic Achievements** ↗