Shantanu Gupta

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EXPERIENCE

Twenty | **Open Source Contributor** | *TypeScript, React* | ↗
- Contributed to **Twenty**, an open-source **CRM**, enhancing core features and improving code quality through multiple successful pull requests.
- Optimized the webhook interface by adding directional flow arrows, improving data flow clarity and user comprehension for a large contributor base.
- Resolved a critical bidirectional Unicode rendering bug, ensuring consistent display and **100%** cross-platform compatibility for users.

EDUCATION

IIIT Naya Raipur   Raipur, Chhattisgarh
B.Tech in Computer Science and Engineering   *2022 – 2026*
CGPA: 8.41

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, TypeScript, Go, SQL
Web and Backend: React, Node.js, HTML, CSS
Data Science and Machine Learning: TensorFlow, Scikit-learn, Pandas, NumPy, Jupyter
Databases and Tools: PostgreSQL, MongoDB, Docker, Git, GNU/Linux
Coursework: Data Structures and Algorithms, Computer Networks, Cryptography, DBMS, AI/ML, OOPS, Operating Systems

ACHIEVEMENTS

- Secured **3rd** position in DataPunk ML Contest at IIIT Naya Raipur.
- Published Paper (IEEE ICETA): Social Media Sentiment Analysis through Novel User-generated Content.
- Achieved **Top 1%** Rank (35th out of 3,587 competitors) in a Kaggle Playground Series Competition.

PROJECTS

Brain Tumor Classification using Spatio-Spatial Models | *Deep Learning, Python* |
- Implemented a Deep Learning pipeline, training a **Spatio-spatial** model on **1,500+** healthy and glioma MRI images for binary classification
- Engineered and fine-tuned a **ResNet (2+1)D** model that significantly enhanced classification accuracy, resulting in a **30% increase in accuracy** compared to regular 3-D models.
- Implemented advanced **data augmentation** and **pre-processing pipelines**, boosting model robustness and ensuring reliable, production-ready classification outcomes.

Ethereum Based Energy Trading | *Web3, Solidity, React, Node* |
- Created a decentralized **energy trading platform** on **Ethereum**, enabling secure and transparent **peer-to-peer** energy transactions for over **500** users.
- Added an automated matching algorithm in **Solidity smart contracts**, achieving **95% accuracy** in real-time balancing of energy supply and demand.
- Automated multi-service orchestration using **Docker Compose**, ensuring reproducible, one-click deployments and simplifying the testing life-cycle.

File Sharing Server | *Go, TypeScript, PostgreSQL, Docker* |
- Designed and developed a **secure and scalable file sharing platform** using **Go** and **React**, enabling authenticated users to upload, manage, and share .txt files through unique public links.
- Engineered **JWT-based authentication** and authorization middleware, eliminating **100%** of unauthorized access attempts to sensitive files
- Integrated **Prometheus** and **Grafana** for **real-time monitoring** of API metrics, enabling performance tuning and reducing error rates by **35%**.