Navneet Gupta

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Education

Vellore Institute of Technology, Bhopal Apr 2022 – Present
Bachelor of Technology in Computer Science and Engineering (CGPA: 8.56) *Bhopal, Madhya Pradesh*

Experience

GC Cloud Info System Pvt. Ltd Dec 2024 – Feb 2025
Full Stack Developer Intern (On-site) *Lucknow, India*

- Engineered and deployed RESTful APIs with Spring Boot and PostgreSQL, improving server-side efficiency and ensuring seamless data integration across modules.
- Developed and optimized responsive UIs using JavaScript, HTML, CSS, and modern libraries, reducing page load times by 20% and boosting user engagement.
- Led end-to-end development of a full-stack project, from requirement gathering to deployment, integrating backend services with a production-ready frontend.
- Delivered a scalable, well-documented application by implementing best practices in code quality, testing (JUnit), and maintainability, reducing bug resolution time by 30%.

Projects

Geovision: Geographic Data Visualization Platform | *Java*, *PostgreSQL/PostGIS*, *JavaScript*, *Leaflet.js*, *HTML/CSS*

- Developed a geographic visualization platform using PostgreSQL with PostGIS to store and query GeoJSON data, enabling accurate display of country boundaries and location labeling on Leaflet.js maps.
- Implemented PostGIS spatial functions for dynamic polygon rendering and shortest-path calculations, improving route accuracy and query efficiency.
- Built interactive, data-driven visualizations with real-time filtering and a responsive interface across devices, ensuring seamless user experience.
- Optimized system performance for large datasets, reducing data retrieval time by 30% and map rendering latency by 25%.

Anemia Detection using Conjunctiva Images | *Python*, *ML*, *OpenCV*, *TensorFlow*, *Keras*

- Achieved 93% accuracy in predicting anemia disease using CNN and 95% post-scaling with Random Forest Classifier.
- Gathered a comprehensive dataset of conjunctiva images containing 4,262 images across both anemic and non-anemic classes, ensuring data quality and integrity through preprocessing steps.
- Employed Random Forests for classification, leveraging extracted features of CNN to accurately identify anemic conditions from images.
- Secured a 96% recall rate for anemia detection using Random Forest, demonstrating robust algorithmic implementation.

Technical Skills

Languages: Python, C++, Java, SQL

Frameworks & Libraries: Flask, ReactJS, Tailwind CSS, Spring Boot, NodeJS, NumPy, Pandas, Scikit-learn, Keras, JUnit, Matplotlib, Seaborn, Plotly

Databases: PostgreSQL, MySQL, MongoDB

Cloud & Tools: Git, GitHub,Postman, AWS, OpenCV, REST APIs

Achievements & Extracurricular Activities

- Worked remotely with Rekniq Consultants (SDE Intern, 2-Months): built a client e-commerce platform in Odoo.
- Published Scopus & UGC-approved paper on AI-based anemia detection using CNN and Random Forest for early, non-invasive diagnosis.
- Leadership: Led my team to semi-finals in BharatGen AI competition.
- Completed *The Bits and Bytes of Computer Networking* (Google, Coursera).
- Completed *Cloud Computing* (IIT Kharagpur, NPTEL).