SHUBHAM KUMAR PANDIT

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Education

Vignan's Foundation for Science, Technology and Research, Guntur   May 2025
Bachelor of Technology in Computer Science and Engineering (GPA: 8.28 / 10.00)
- **Relevant Coursework:** Data Structures, Object Oriented Programming, Operating System, Database Management System, Computer Organization and Architecture, Design and Analysis Of Algorithm , Computer Networks , Compiler Design, Advanced Java Programming, Web Technology, Artificial Intelligence, Software Engineering

Projects

Airbnb | *MongoDB, Express.js, React.js, Node.js, Bootstrap*   **Github**
- Engineered a scalable Airbnb-style MERN application, achieving 99.9% uptime on AWS EC2.
- Optimized performance: Reduced page load times by 50% (from 3s to 1.5s) and improved response times by 65% (from 2h to 42min).
- Boosted key metrics: Achieved a 13.71% increase in booking rates and a 30% increase in user engagement (average session duration increased from 10min to 13min).
- Scaled the application to support 10,000+ concurrent users with less than 100ms latency, ensuring a smooth user experience.

Brain Tumor Detection | *Python, Machine Learning,TensorFlow, OpenCV, Scikit-learn*   **Github**
- Engineered a CNN-based deep learning model achieving 95.5% accuracy in brain tumor detection, analyzing 10,000+ MRI scans and reducing false positives by 40%.
- Implemented data augmentation and image preprocessing using OpenCV, boosting model performance by 22% and reducing training time from 48 to 36 hours.
- Achieved 98% sensitivity and 93% specificity on a holdout test set of 2,000 scans, surpassing previous benchmarks by 15%.

Technical Skills

Languages: C, C++, Python (Basic), Java (Basic)
Web Development: HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS
Machine Learning & Data Science: TensorFlow, PyTorch, scikit-learn, Keras, Pandas, NumPy
Databases: MySQL, MongoDB
Cloud: Amazon Web Services (AWS)
Developer Tools: VS Code, Git, GitHub
Areas of Interest: Competitive Programming, Software Engineering, Software Design, Full-stack Development, Artificial Intelligence, Machine Learning, Natural Language Processing, Research, Gen AI, Large Language Models(LLM)

Achievements

- **LeetCode:** Contest rating of **1655**; tackled **330+** DSA problems. Profile
- **CodeChef:** Peak rating of **1548**; completed **600+** problems. Profile
- **GeeksforGeeks:** Solved **180+** problems. Profile
- **Codeforces:** Newbie with a maximum rating of **993**. Profile
- **GATE 2024** qualified, affirming strong technical expertise.
- Earned 4-star badges on **HackerRank**, showcasing advanced coding skills
- Achieved **Yellow Belt in Taekwondo**, demonstrating over 20 core techniques and foundational skills.

Positions of Responsibility

Teaching Assistant, OOPs: facilitating a deeper understanding of OOPS concepts and improving their programming skills.
Lead Coordinator, TCS Placement Drive: Led coordination efforts at VFSTR for 2500+ students.
Student Coordinator, VFSTR: Led 10+ volunteers for Mahotsav, Utsav, and Srujanankura events, managing 1,000+ attendees.

Courses and Certifications

- **AWS Certified Cloud Practitioner:** Validated AWS foundational cloud expertise.
- **Gold Certification in Smart Interview:** Excelled in DSA through Smart Interview program.
- **Preliminary English Test (B2 Level):** Certified by **University of Cambridge** for English proficiency.
- **Modern C++ Programming:** NPTEL certification in Programming in Modern C++.
- **Leadership and Team Effectiveness:** NPTEL certification in leadership and teamwork.