VANSHI PATEL

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EDUCATION

M.S., Software Engineering Systems 2024-2026
Northeastern University, Boston, MA
Coursework: Object-Oriented Design, Data Science, Advanced Algorithms, High Parallel Computing

B.E., Computer Engineering 2020-2024
Gujarat Technological University, Surat, Gujarat
Coursework: Data Structures, Data Science, Data Mining, Machine Learning, AI, DBMS, Cloud Computing

TECHNICAL SKILLS

Programming Languages: C, Python, Java, Django, React
Development Tools: VSCode, Android Studio, IntelliJ, GitHub, Jira, Docker, Postman, Linux
Databases Data Visualization: MySQL, PostgreSQL, PowerBI, BeautifulSoup, Scrapy
Machine Learning Frameworks: TensorFlow, Keras, PyTorch, Scikit-Learn, XGBoost, OpenCV, YOLO
Natural Language Processing Tools: NLTK, SpaCy, Hugging Face Transformers, BERT

PROFESSIONAL EXPERIENCE

Larsen and Toubro, Surat, India: Video Analysis Intern Feb – Apr 2024

- Leveraged MakeSense and YOLOv5 to optimize video analysis processes, improving tracking efficiency by 30%.
- Developed an API for real-time performance metrics, reducing reporting time by 25%.
- Collaborated with a team of data engineers to optimize data pipelines, resulting in a 15% reduction in downtime.

Broader AI, Surat, India: Data Science Intern Jul 2023 – Jan 2024

- Designed and launched a Flask-based exam portal, increasing student participation by 40% through features.
- Applied machine learning algorithms (Classification, Regression) to improve system performance by 20%.
- Achieved 95% accuracy in document scanning through computer vision (Image Processing, Object Detection).
- Built an NLP model that generated over 200 domain-specific interview questions, streamlining candidate preparation and enhancing hiring efficiency.

PROJECTS

Parkbnb: A Smart Parking Reservation and Management Solution
Led the development of an automated parking management platform with enhanced user experience and efficiency.

- Directed the integration of geolocation-based features,resulting in a 20% reduction in search time for parking.
- Engineered back-end services for payment processing using Spring Boot and PostgreSQL, ensuring a 99.9% uptime for financial transactions.
- Collaborated with cross-functional teams to incorporate secure payment gateways (Stripe), improving user trust and conversion rates.

Temperature Detection and Email Alert System
Created a real-time IoT-based system for temperature monitoring with automated alerts.

- Led a team of three in developing an IoT system that reduced response time to critical temperature changes by 15%.
- Designed cloud-based alert systems that ensured 99% uptime and real-time system monitoring.
- Showcased the project at SAP Semi-Finals, where it received praise for innovative use of IoT technologies.

CERTIFICATIONS

- GTU-Code Unnati Innovation Marathon, 2022-23: Awarded for innovative AI-driven solutions.
- Training on AI, IoT, and ERP (SAP), 2022-23: Gained specialized knowledge in enterprise-level AI applications.