Gopal Verma

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY, MADRAS Madras, India
Bachelor of Science 2022 - 2026
Data Science and Programming
Cumulative GPA: 7.5/10.0
Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Artificial Intelligence

PUNJAB ENGINEERING COLLEGE, CHANDIGARH Chandigarh, India
Bachelor of Technology 2021 - 2025
Production and Industrial Engineering
Cumulative GPA: 7.0/10.0
Relevant Coursework: Data Analysis, Lean Manufacturing; Project Management; Process Improvement; Ergonomics

DELHI PUBLIC SCHOOL, RANIPUR Haridwar, India
AISSE(10th), AISSCE(12th, PCM + CS) 2007 - 2021
Cumulative Percentage: 93% (AISSE), 94% (AISSCE)

WORK EXPERIENCE

BHARAT HEAVY ELECTRICALS LIMITED (BHEL) Haridwar, India
Data Science Intern Jan 2024 – Jun 2024
- Performed threat detection using Scikit-learn and TensorFlow, achieving 95.7% accuracy and 35% reduction in false positives.
- Developed NLP-based sentiment analysis with NLTK and SpaCy, processing 1M+ log entries with 87% accuracy.
- Created interactive dashboards using Plotly, Dash, and Seaborn, visualizing 5TB of log data with heatmaps and violin plots.
- Created 10+ interactive dashboards with Power BI, visualizing 500K+ data points, boosting decision-making efficiency 40%.

QUILLBOOK Noida, India
Mobile + ML Developer (Freelance) Oct 2023 – Dec 2023
- Converted 30+ Figma screen designs to responsive React Native components for iOS and Android mobile app.
- Developed machine learning model using TensorFlow and OpenCV for image-to-text extraction with 92%.
- Implemented Flask server for API requests, reducing response time by 30% and increasing API requests handled by 20%.
- Integrated Tesseract OCR engine for text recognition and extraction, increasing accuracy by 15%.
- Used Firebase Firestore for data access and management, decreasing data management time by 20%.

PERSONAL PROJECTS

GOPX WEBUI July 2024 - Present
- Developed library of UI components using ReactJs, NextJs, Tailwind CSS, and Framer Motion for modern web development.
- Engineered a Copy-paste system and CLI tool for UI components, streamlining integration for developers and designers.
- Curated a collection of responsive web templates, enabling users to quickly launch professional-looking websites.
- Implemented a user-friendly color generator tool and comprehensive color palette system to enhance design consistency.
- Grew website traffic to over 450+ unique visitors and 5,000+ views monthly through effective SEO and content strategies.

HARDMON June 2024 - July 2024
- Developed a Golang based web application for real-time system hardware monitoring with sub-second update intervals.
- Implemented websocket communication for live updates, eliminating the need for manual page refreshes.
- Utilized Gopsutil library to gather comprehensive system metrics, including CPU, memory, disk, and network statistics.
- Created a responsive front-end using HTMX for dynamic content updates, Bootstrap for styling, and Font Awesome icons.

POSITION OF RESPONSIBILITIES

CORE COMMITTEE MEMBER Chandigarh, India
ACM-CSS, PEC Jan 2022 – Present
- Part of the core committee of the coding society of PEC and spearheaded the planning and organization of events.
- Successfully conducted programming sessions and arranged coding contests and hackathons for 700+ of students.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, HTML, CSS, JavaScript, TypeScript, Golang
Web & Mobile Technologies: ReactJs, NextJs, VueJs, Bootstrap, Tailwind CSS, NodeJs, Flask, React Native
Data Science & Machine Learning: Pandas, NumPy, Matplotlib, Scikit-learn, NLTK, Seaborn, Power BI
Databases & APIs: SQL, MongoDB, PostgreSQL, MySQL, REST, GraphQL