Vaibhav Pandey

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Kanpur, Uttar Pradesh

EDUCATION

Pranveer Singh Institute of Technology   Kanpur, India
B.Tech in Computer Science Engineering   **October 2023 - Present**

SKILLS SUMMARY

Languages: Python, C++, JavaScript, HTML, CSS, SQL
Frameworks/Libraries: React.js, Node.js, Express.js, Pandas, NumPy, Matplotlib OpenCV, Ultralytics YOLOv8
Databases: MySQL, MongoDB
Tools & Platforms: Git, GitHub, Google Colab, Excel, RESTful APIs, Web Speech API

WORK EXPERIENCE

Frontend Developer Intern @SensibleT.in   **October 2024-December2024**

- Designed and developed the Privacy Section for the website using HTML, CSS, JavaScript and React.
- Collaborated with backend developers to ensure seamless UI/UX integration.
- Optimized frontend components to improve performance and responsiveness.
- Contributed to enhancing user engagement with clean and efficient designs.

PROJECTS

Fire Detection Model Optimization   **December 2024- February 2025**

- Developed a real-time fire detection system using YOLOv8, trained on custom and public datasets via Google Colab.
- Integrated with CCTV systems for deployment and monitored model performance on edge systems.
- Configured auto-save and checkpoint resume features for long training cycles.
- Explored Docker-based packaging and deployment strategies.
- Ensured secure model execution by applying basic safeguards against misuse and instability.
- Built understanding of scalable systems, integrating lightweight models for real-world deployment

AI Virtual Assistant   **January 2025- February 2025**

- Built a full-stack AI-powered virtual assistant using MongoDB, Express.js, React.js, and Node.js.
- Integrated OpenAI APIs and developed secure RESTful APIs to connect frontend and backend components.
- Implemented voice-based commands using Web Speech API and ensured secure session handling.
- Designed a modular and scalable architecture, implementing basic authentication and encryption measures.
- Reflected principles of data protection, error handling, and stateless architecture used in cloud environments (AWS).
- Experience with POC development, evaluated performance of real-time NLP integration with external APIs.

CERTIFICATES

Infosys Springboard Certificates

- **Programming in Python**
  Learned Python basics, control structures, functions, and object-oriented programming.
- **Web Development with HTML & CSS**
  Built responsive web pages using semantic HTML and CSS styling techniques.
- **JavaScript Essentials**
  Covered core JavaScript concepts including DOM manipulation, functions, and event handling.
- **React Fundamentals**
  Built dynamic front-end applications using React components, props, state, and hooks.

ACHEIVEMENTS

- **Finalist**, *Smart PSIT Hackathon* – Selected among top-performing teams for innovative project presentation.
- **1st Place**, Internal Hackathon for *Smart India Hackathon 2024* – Led team to win among 80+ teams.
- **2nd Place**, *Tech Expo*, College Technical Fest – Top 2 position among all second-year participants.
- **35th Rank**, College Hackathon – Secured 35th position among 1800+ second-year students.
- **Solved 400+ DSA Problems on LeetCode** – Demonstrated strong problem-solving and algorithmic thinking skills.