Shantanu Pandey

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Education

Ramaiah Institute of Technology, Bengaluru
B.E. - Computer Science and Engineering - **CGPA - 8.52**

Kendriya Vidyalaya DRDO, Bengaluru
Upper Secondary Graduation - **Percentage - 93.0**

Projects

Awaaz-AI | MERN, Google Cloud Services | IDE - VS Code, Postman **2024**

- Developed a chatbot platform offering legal and trauma support tailored for potentially 81% of women who have experienced harassment or trauma. Key features include:
- Fine-tuned trauma support chatbot, trained on 3,000+ cases across 100 epochs using an 8-layer Gemini model.
- Social media functionality: Reddit-style upvotes, downvotes, and anonymous post sharing for users to connect and share experiences.
- Robust authentication: JWT and bcrypt ensure secure login and session handling, improving authentication security by up to 90%.

Online-Clipboard | MERN | IDE - VS Code **2024**

- Developed an online clipboard application using the MERN stack, allowing users to manage and retrieve text snippets efficiently.
- Enabled text snippet uploads via a textbox, with storage and retrieval powered by MongoDB.
- Generate access codes for easy retrieval and sharing of uploaded text, reducing search time by 25% and error rate by 20%.
- Added single-click copy-to-clipboard functionality for immediate text access and sharing, saving up to 50% of time..

Resume-Maker | HTML, CSS, JS, React | IDE - VS Code **2024**

- Built a Resume-Making website using React, handling dynamic inputs for generating accurate and formatted resumes.
- Automated dynamic template generation using CSS and @react-pdf/renderer, providing instant downloadable PDFs for user resumes.
- Optimized the resume creation workflow, decreasing time spent by users from 2 hours to 10 minutes (90% improvement).

Gesture-Controlled-Drone | YOLOv8, ROS, Python | IDE - VS Code, OS - Ubuntu 16.0 **2025**

- Built a Gesture-Controlled Drone
- Trained on 3,000+ image dataset using YOLO v8
- Achieved accuracy of upto 98%
- Used Robot Operating system (ROS) that communicates over TCP and UDP.

Skills

Programming Languages: C++ (DSA), Java, Python, JavaScript
Full Stack: HTML5, CSS3, Tailwind CSS, JavaScript, Node.js, EJS, React.js, PostgreSQL, MongoDB, Express.js, JSON, XML, CSV, REST APIs
Developer Tools: VS Code, Git, GitHub, Postman, Vercel, Render, AWS, Azure, GCP, Adobe Lightroom, Canva, Wireshark, 92 WPM
Other Technical Skills: DBMS, Virtualization, Cloud Technologies, Communication Networks, OSI, TCP/IP, SSL, SSH, UDP, Software Engineering, .NET, DNS, Linux, AIML, Machine Learning, Tensorflow, PyTorch, Artificial Intelligence
Soft/Non-Technical Skills: - Sales, Public Speaking, Quick Learner, Leader, Disciplined, Empathy, Team Collaboration, Time Management, Communication, Basketball

Work Experience

Samsung (https://research.samsung.com/sri-b) **Oct. 2024 - Present**
Research Intern Bengaluru, In.

- Working with Samsung R&D Institute India-Bangalore under Samsung PRISM program.
- Project user base over 62 million.

Drona Aviation (https://www.dronaaviation.com) **Feb. 2025 - Present**
Project Manager, POC Bengaluru, In.

- Working with Drona Aviation to develop Gesture Controlled Drones.