CHHAVI DHANKHAR

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Education

Thapar Institute of Engineering and Technology	Oct. 2021 – Jun 2025
B.E. (Computer Engineering)	*CGPA - 9.43*

Technical Skills

Languages: C, C++, C#, Python, JavaScript, R Programming, HTML, CSS
Frameworks: .NET, Angular, React.js, Next.js, Tailwind CSS, Streamlit
Databases and Data Tools: MySQL, PostgreSQL, OracleDB, SQL Server (SSMS), Azure Data Factory, Supabase
Tools and Platforms: Git/GitHub, Azure Data Factory, Power BI, Excel, Visio

Experience

Providence India	**Jan 2025 – Jun 2025**
Software Development Engineer Intern	*Hyderabad, Telangana*

- Contributed to the integration of a time sheet tracking system using **Azure Data Factory** for **ETL processes** and **SSMS** for data storage and view creation, replacing SSIS-based workflows with a more centralized approach.
- Resolved 10+ user stories across **10 Agile sprint cycles**, improving team velocity by actively participating in daily stand-ups, sprint reviews, and retrospectives.
- Coordinated with **3+ cross-functional teams** to ensure business-aligned implementation of logic layers, significantly reducing ambiguity in **financial reporting**.
- Designed and executed **unit tests** and **data validation workflows** per sprint, integrating test coverage into GitHub check-ins to ensure code reliability and consistency.

Providence India	**Jun 2024 – Aug 2024**
Software Development Engineer Summer Intern	*Hyderabad, Telangana*

- Developed key features for a **multi-tabbed Resource Manager tool**, with a focus on the Analytics tab, delivering actionable insights that improved **operational decision-making**.
- Built the **front-end in Angular** and **backend using .NET (C#)**, integrating with **GraphQL APIs** and managing data operations through **SSMS**.
- Refactored the **UI** to improve usability and responsiveness, incorporating user feedback and accessibility best practices.

Projects

AI Interview Coach | *Python, Streamlit, Faster-Whisper, Gemini API, gTTS, SoundDevice*
- Identified interview anxiety as a common barrier and built a voice-based mock interview simulator app
- Used Gemini API to generate role-specific questions and real-time feedback; users can plug in their own API key reducing backend costs by 100%.
- Integrated Faster-Whisper and gTTS for real-time voice interaction, cutting input time and improving session engagement by 2x.
- Deployed a mobile-friendly Streamlit app, with zero-login on boarding and support for 3 difficulty levels.

Photo-booth Web App | *Next.js, Type Script, Tailwind CSS, Supabase, PostgreSQL*
- Developed an interactive photo booth application with camera access, 4+ live filters, and dynamic photo strip creation using the Canvas API.
- Integrated Supabase for user authentication, cloud storage, and database operations.
- Enabled personalized galleries by dynamically routing images by user and month, improving content organization.
- Designed a responsive and accessible user interface using Tailwind CSS.

Hemlock – AI Cloaking Tool for Artist Style Protection | *Python, PyTorch, Hugging Face, VGG19*
- Worked on a defensive tool to prevent AI models like Stable Diffusion from copying digital art styles by applying subtle, image-level modifications while keeping visuals intact.
- Engineered a U-Net-based encoder-decoder architecture with a custom module that applies feature-level perturbations using cosine similarity, improving protection without noticeable quality loss.
- Tested model effectiveness using 3+ visual and structural metrics (LPIPS, SSIM, PSNR), ensuring minimal distortion.
- Curated and cleaned a dataset of 4,400+ artworks and worked with stored features from VGG19 to support training.

Achievements

- Merit Scholarship recipient at TIET for academic excellence for 3 years (2022–2024).
- Campus Leader at UnsaidTalks – Led a student team and published **50+ alumni interviews within 4 months.**
- Solved **100+ questions** on LeetCode, focusing on DSA and problem-solving.
- Volunteer at Pratigya Abhiyan and GirlUp (UN Foundation) – Supported education access and gender equality initiatives.