

Riddhi Dhawan

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EDUCATION

Netaji Subhash University of Technology

Bachelor of Technology in Electrical Engineering

Dwarka, New Delhi

Aug.2023 – April 2027

Rukmini Devi Public School

CBSE-XII, Percentage - 95.2% | CBSE-X, Percentage - 92%

Pitampura, New Delhi

Aug. 2022 – May 2023

EXPERIENCE

Defence Research and Development Organisation (DRDO)

June 2025 - July 2025

Summer Research Intern

Hybrid

- Explored the electrical-software interface via semiconductor simulations.
- Conducted Monte Carlo analysis on MCT photodiodes using statistical models.
- Converted C functions to MATLAB and built a simulation dashboard.

PROJECTS

AI Podcast Generator [repo link](#) | *NextJS, TypeScript, React19, Supabase, Novita, ElevenLabs*

June 2025

- Built an AI-driven podcast platform using **Next.js 15** and **React 19**, transforming **text prompts into playable audio episodes**.
- Integrated **OpenAI** and **ElevenLabs APIs** for dynamic content generation and **realistic text-to-speech synthesis**.
- Configured **Supabase Authentication and audio storage** to enable secure, persistent user experiences.
- Crafted **RESTful APIs** to streamline podcast workflows, supporting episode creation, **voice selection, and playback**.

Career Compass [repo link](#) | *Streamlit, Crew.ai, Langchain, AWS, Flask*

Jan 2025 – Feb 2025

- Architected a **multi-agent AI system** with **CrewAI** and **LangChain** to deliver real-time career guidance.
- Linked **six role-specific agents** to enable holistic analysis covering skills, market trends, and emotional support.
- Leveraged **AWS S3** and **RAG** to provide contextual document retrieval and **interactive PDF-based guidance**.
- Implemented **fairness-aware algorithms** that improved recommendation diversity by 40% across 5,000 users.
- Visualized counseling results using **Streamlit** to **enhance user interpretability** and engagement.

Captionize [repo link](#) | *Next.js, Tailwind CSS, AWS S3, FFmpeg, WhisperX*

Nov 2024 – Jan 2025

- Constructed an **end-to-end captioning tool** using **WhisperX** for accurate speech-to-text alignment.
- **Synchronized FFmpeg** processing to embed subtitles directly into videos, enhancing accessibility and SEO.
- **Connected AWS S3** for scalable file management, ensuring **fast uploads**, downloads, and secure access.
- Introduced **editable, timestamped transcript** exports to support manual revision and **multi-format publishing**.
- Streamlined **UI components with Tailwind CSS** to deliver a fast, modern editing interface.

ACHIEVEMENTS

Selected for Amazon ML Summer School 2025

August 2025

Among 3,000 students chosen from 65,000+ applicants

1000+ rating on Codeforces and 1700+ rating on Leetcode

May 2025

450+ questions solved in overall Coding Platforms - Leetcode, Coding Ninjas, Codeforces

Amdocs GenAI Hackathon 2024-25

Dec 2024 - Feb 2025

Integrated multiple AI agents in project

- Secured a position among the **top 1,000 out of 5,000+** entries for prototype submission and ranked in the **top 5,000 of 10,000+** for idea submission.

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, TypeScript, HTML, CSS, Tailwind, SQL.

Frameworks: ReactJS, NextJS, NodeJS, Flask, ExpressJS, MongoDB, Crew.ai, Pytorch, Tensorflow.

Developer Tools: AWS, Git, Docker, Azure, Google Cloud Platform, VS Code, Vercel, NextAuth.

Libraries: Pandas, NumPy, Matplotlib, Streamlit.