Aayush Mishra

✉ G-Mail 📞 +91-8424966294 in Linked-In ⌂ Github 🌐 Portfolio

Education

MIT Manipal, Manipal *July 2023 - July 2027*
B.Tech - Mechatronics (Robotics and Automation)

Experience

UG Researcher *Sept. 2024 - Dec. 2024*
MIT Manipal, Udupi

- Engineered a system to classify flying objects (e.g., drones) into threat levels using Micro-Doppler Radar Data. **Integrated Modules for Signal Acquisition and Imaging, Processed Radar Data** via **MATLAB Toolboxes**.

Front-End Developer *July 2024 - October 2024*
Rydeu Logistics, Mumbai

- Developed responsive, component-driven web applications using modern frameworks like React, Next.js and Astro. Translated Figma designs into pixel-perfect UIs with semantic HTML and utility-first CSS. **Optimized rendering performance, reduced LCP and CLS metrics, resulting in a 60% increase in user engagement.**

Technical Skills

Programming: Python, C/C++, MATLAB, TypeScript
Technologies: Git/GitHub, GCP Console, VS Code, Jupyter Notebook, Linux, ROS2.
Front-End: JavaScript, Next.js, React.js, Tailwind-CSS, Framer Motion, Zustand, Astro, UnoCSS
Back-End: MongoDB Atlas, Supabase, SQL/NoSQL, Firebase, JWT Authentication, Express.js, Node.js, REST APIs

Projects

Streamify - A Secured Social Media Web-App *GitHub Link* ↗

- Developed a full-stack web application enabling users to **chat, initiate video calls, share screens, react to messages, and exchange files and media content in real-time**.
- Tools Used: MERN, API Integration, React.js, Vite.js, Tailwind CSS, JWT Authentication.

Image-to-Text Extractor and Translator *Live Link* ↗

- Uses image uploaded by user to - **extract text from the image and translate it** into any Indian language for user's convenience.
- Tools Used: Google Cloud Vision API, TypeScript, Tailwind CSS, Google Translation API, Next.js

Prepwise - AI Voice Agent for Interview Prep *Live Link* ↗

- A full-stack platform **enabling users to practice for interviews with an AI-powered voice agent** and **receive detailed performance scorecards after each session** and practice with unlimited retakes.
- Tools Used: TypeScript, Vapi-AI, Next.js, UnoCSS, Firebase.

Achievements

CodeForces (Max. Rated - Pupil, 1286) *Profile Link* ↗

- Solved **120+ Questions** on Data Structures and Algorithms, India Rank - **6,883 Out of 80,000+**

CodeChef (Max. Rated - 1677) *Profile* ↗

- Solved **300+ Questions** on Data Structures and Algorithms, India Rank - **7,858 Out of 100,000+**

Winner - HackByte3.0 Hackathon 2025

- Competed and **Won the Best Use of GitHub Award** in a 36-Hour Hackathon **Organized by IIIT Jabalpur and Hosted by GitHub and Devfolio**.

Finalist - AMD AI Hackathon 2025

- One of the - **150 Shortlisted Participants out of 4000+ Registered**. Competed in a 2-Day Hackathon **Organized by IIT Bombay and Hosted by AMD**.

Finalist - The Great Bengaluru Hackathon 2025

- One of the - **100 Shortlisted Participants out of 5000+ Registered** in a 48-Hour Hackathon **Organized by RVCE Bangalore and Hosted by HackCulture**.