

ADVAITH R PAI

Ernakulam, Kerala

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TECHNICAL SKILLS

Languages & Tools: Python, SQL, Git, GitHub, Vercel, Visual Studio Code, Cursor IDE
Coursework: Machine Learning, DBMS, Data Structures and Algorithms

EXPERIENCE

DRDO NPOL **September 2025 - Present**
Research Intern *Thrikkakara, Kochi*

- Under the guidance of a senior scientist, implementing **DWSTr framework** (depthwise separable CNN + Transformer) for naval vessel classification, targeting 96.5% accuracy on ShipsEar passive sonar dataset with 11 ship categories
- Tech Stack:** Python, PyTorch, Librosa, NumPy, Seaborn

HopeLine - AI Addiction Recovery **Jan 2025**
Top 6/50+ Teams - HACK-A-ADDICT *Kothamangalam, Kerala*

- As a key member of a three-person team, engineered mobile application with AI mental health chatbot, reward-based quiz system, and achievement badges for addiction recovery
- Implemented community forums, family caregiver dashboards, and personalized meditation tools with authentication and analytics
- Tech Stack:** Flutter, Node.js, SQLite, Figma

TECHMAGHI **May 2023**
Game Development Intern *Kalamassery, Kerala*

- Developed **game prototypes** using **Unity and C#**, improving animation realism and user engagement by **30%**

PROJECTS

CAFFIEND - Caffeine Tracker **May 2025**

- Built full-stack web app using **React.js and Firebase** with 5-hour half-life metabolism tracking, processing **100+ entries/session**
- Engineered analytics dashboard with date-based aggregation, ranking system for top 3 beverages, and 5+ key metrics across time frames
- Tech Stack:** React.js, Firebase (Auth, Firestore), Vite, FantaCSS, Tippy.js, Netlify

SELECTRA - AI Resume Analyzer **September 2025**

- Built AI-powered resume screening platform using **Claude Opus 4.1** and **PDF.js**, processing resumes to generate **ATS compatibility scores** and actionable improvement recommendations across 5 evaluation criteria
- Integrated **Puter.js cloud infrastructure** (file storage, KV database, AI API) with **Zustand** state management, enabling persistent resume tracking and **60% improved user retention**
- Tech Stack:** React Router v7, TypeScript, Tailwind CSS, Puter.js, PDF.js, Zustand

EDUCATION & ACHIEVEMENTS

Muthoot Institute of Technology & Science
Bachelor of Technology in Computer Science - AI Engineering CGPA: 7.5/10

GitHub Leader: Gained **1000+ followers** through consistent contributions & high-quality projects

Consistent Programming: Solved **300+ problems** on LeetCode, demonstrating strong Data Structures and Algorithms proficiency