

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 <i>Research Intern</i>	September 2025 - Present <i>Thrakkakara, Kochi</i>
<ul style="list-style-type: none">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 categoriesTech Stack: Python, PyTorch, Librosa, NumPy, Seaborn	
HopeLine - AI Addiction Recovery <i>Top 6/50+ Teams - HACK-A-ADDICT</i>	Jan 2025 <i>Kothamangalam, Kerala</i>
<ul style="list-style-type: none">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 recoveryImplemented community forums, family caregiver dashboards, and personalized meditation tools with authentication and analyticsTech Stack: Flutter, Node.js, SQLite, Figma	

PROJECTS

CAFFIEND - Caffeine Tracker	May 2025
<ul style="list-style-type: none">Built full-stack web app using React.js and Firebase with 5-hour half-life metabolism tracking, processing 100+ entries/sessionEngineered analytics dashboard with date-based aggregation, ranking system for top 3 beverages, and 5+ key metrics across time framesTech Stack: React.js, Firebase (Auth, Firestore), Vite, FantaCSS, Tippy.js, Netlify	
SELECTRA - AI Resume Analyzer	September 2025
<ul style="list-style-type: none">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 criteriaIntegrated Puter.js cloud infrastructure (file storage, KV database, AI API) with Zustand state management, enabling persistent resume tracking and 60% improved user retentionTech 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	