

# Prithika Sathish

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## Technical Skills

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**Frontend:** HTML5, CSS, JavaScript, TypeScript, Tailwind CSS, Material UI, Bootstrap

**Backend:** Node.js, Express.js, Python (Django, Flask, FastAPI)

**Database & Cloud:** MySQL, PostgreSQL, MongoDB, Firebase, Supabase, Cloud Fundamentals

**AI / ML:** TensorFlow, PyTorch, OpenCV, NLTK, Hugging Face Transformers, LangChain, LLaMA

**Languages & Tools:** Python, C++ SQL, NoSQL, Git, Docker, REST APIs, GitHub Actions

**Open-Source Tools:** YOLOv8, Hugging Face

## Professional Experience

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**Project Intern, SRMIST Vadapalani**

Nov 2024 – Dec 2024

- Followed Agile Software Development Lifecycle (SDLC) from requirement gathering to deployment, including testing and feedback iterations.
- Leveraged RESTful APIs, customizable tabular views, and CSV export for structured and downloadable data access.
- Optimized search/filter algorithms for under-200 ms responses on datasets exceeding 1,000 records.
- Applied database indexing and load optimization to ensure consistent high availability.

## Key Projects

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**Chakra Markets – Retail Trading Intelligence Suite**

[Link](#)

- Engineered a real-time analytics platform with portfolio insights and goal-based allocation, tracking Indian equities & F&O with Open Interest, IV, PCR, max-pain, and weekly-expiry visualizations.
- Built interactive dashboards and strategy payoff graphs using Vite.js, Node.js, D3.js, and Material UI for high-performance rendering.
- Integrated **live NSE and Yahoo Finance APIs** to fetch, normalize, and display dynamic market data every 3 minutes.
- Enabled sentiment & flow signals, multi-expiry/strike selection, alerts, watchlists, and backtesting for options and directional trades.
- Designed scalable, user-centric interfaces bridging fintech analytics with data-driven insights, useful for portfolio management.

**E-Waste Collector**

[Link](#)

- Implemented a gamified e-waste collection platform rewarding users with impact points redeemable for social causes via mapped NGOs.
- Deployed **YOLOv8** for real-time detection & classification of recyclable categories.
- Prototyped a smart kiosk using Arduino & USB camera for on-site sorting with QR-code tagging & tracking.
- **Streamlined CSR collaboration**, linking user contributions with NGOs for sponsorship & impact reporting.

**HerHaven – Women Wellness Platform**

[Link](#)

- Focused on **government scheme discovery**, **financial literacy**, **job discovery**, and personalized health insights.
- Incorporated goal tracking, daily check-ins, expense monitoring, and **investment plan suggestions** tailored to income and spending patterns.
- Developed an SOS feature with voice triggers, location tracking, and helpline access.

## JobVerse – Job Simulation and Preparation Platform

### Link

- Created an interactive platform to simulate real-world job roles and prepare users for interviews.
- Automated resume parsing, mock interview scheduling, and skill **tracking workflows using n8n**.
- Integrated Gemini API for AI-driven career guidance, personalized practice tasks, and market insights.
- Designed modular role-based simulations bridging skill development with practical job scenarios.

## Education

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**B.Tech, Computer Science and Business Systems**, SRMIST  
**HSC: 80%**

CGPA: 9.80 (4 semesters)

## Achievements

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- Winner – Build to Deploy (Mar 2025): Built ML model in 12 hours, ranked 1st/100+ teams.
- Winner – Hack Horizon (Oct 2024): 1st place/80+ teams for real-time solution.
- Winner – Hackerz Thiruvizha - an 8 hour challenge (Feb 2025): 1st place/150+ for delivering a cutting edge solution
- Winner – Vertex Innovate (Feb 2025): 1st place/1000+ participants in software domain
- Third Place – ImpactX 2.0 (Jan 2025), HackForge (Feb 2025).
- Semi-Finalist – L&T CreaTech Challenge (Top 2%).
- Special Mention – Spectrum'25 (VIT Chennai).

## Languages

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English, Tamil, Hindi

## Certifications

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- Complete AI, ML & Data Science Bootcamp – Udemy
- Machine Learning – Andrew Ng (Coursera)
- Introduction to Programming in C – NPTEL
- Database Management Systems – NPTEL
- Cloud Computing Specialization – Coursera (Ongoing)
- SQL for Data Analysis – Coursera (Ongoing)

## Core Competencies

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Full-Stack Web Development, AI/ML Model Development, UI/UX Design, Agile Scrum Methodology, Backlog Prioritization, Test-Driven Development (TDD), Hackathon Leadership

## Research

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**Faculty Nexus: A Full Stack Data Management Portal for Higher Education Ecosystems** – Developed as part of SRMIST internship; scalable & secure centralized faculty data management platform. (Draft in progress)

## Leadership & Extra-Curriculars

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- Second Place – Paper Presentation (Abhigyaan'24) on VLSI advancements.
- Joint Secretary – Arrowdev Technical Club, SRMIST.
- Technical Member – HackHub, VIT Chennai.
- Participant – Chennai FOSS 2.0 (Ethical AI).
- Actively interested in Financial analysis, stock market & algorithmic trading with Python automation.