

# Ashwath N

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## EXPERIENCE

### Data & AI Engineer / Consultant

Jun 2025 – Present

*SignaTech Services Private Limited*

*WFH, India*

- Secured a **full collaborative AI partnership** with US client AB Data by leading the technical engagement, capturing their complex QA workflows, identifying key pain points, and developing a high-impact automation POC.
- Engineering a process mining solution for AB Data's IS team, integrating real-time data from (QuickBooks TSheets, Zendesk) to identify and visualize workflow bottlenecks in **Power BI**.
- Pioneered the firm's first AI-driven analytics solution for SSR, **establishing client trust** and **securing follow-on AI projects**, by developing a **self-managing threshold system** using an **Isolation Forest** model, which detects and presents manufacturing time per item and time entry anomalies on **Power BI** dashboard.

### Full Stack AI Developer

Dec 2022 – Jun 2025

*Edsols Innovation Private Limited*

*Bengaluru, India*

- Contributed directly to **10% of the startup's annual revenue** (approx. 10 Lakhs) by leading the end-to-end delivery of a major client analytics software, managing **client meetings** and the full **SCRUM** development/testing lifecycle.
- Developed a healthcare EMR automation solution by integrating **Faster-Whisper** (STT) with **Hugging Face LLMs** for NER, successfully automating form-filling from physician diagnoses.
- Drove a major R&D breakthrough for the company's main **product line** (Jetbot) by engineering an efficient architecture—derived from extensive model training and annotation—to achieve the **concurrent execution** of all three core AI models (lane following, traffic recognition, obstacle avoidance) for the first time.

## PROJECTS

### Multi-Gateway Payment Integration (Stripe & Razorpay) | Associate Software Developer

- Engineered payment gateway POCs in both **Python (FastAPI)** and **Java (Spring Boot)**, integrating **Stripe** and **Razorpay** to compare platforms.
- Researched and implemented **3 distinct Stripe payment flows** (Prebuilt Checkout, Payment Element, Custom Flow) to validate different e-commerce checkout experiences.
- Focused on secure **server-side transaction processing**, robust **webhook** handling for asynchronous events, and detailed transaction logging for auditability.

### Pickly | Full Stack Developer

- Developed a performant, **100% in-browser** photo culling tool using **Next.js** and **Shadcn/UI**, guaranteeing user privacy by processing all files locally (no uploads).
- Implemented a full suite of professional culling features like star rating, pick/reject flagging, side-by-side comparison, and keyboard shortcuts.
- Support donations for the project are handled through **stripe payment gateway**.

### Bravisa Analytics System | Associate Software Developer

- Revived legacy bravisa project using **Python (Flask)** backend, supported by a **PostgreSQL** database to efficiently process **15+ years** of complex financial data across **60+ tables**.
- Achieved a **40% reduction** in report generation time for the client by meticulously porting legacy logic using **pandas** to perform data transformation and report creation.

## ACHIEVEMENTS

**Home Lab DevOps:** Manages a self-hosted network lab; developed a custom **DDNS client in Python** for Hostinger to run on a **Raspberry Pi**.

**Open-Source:** Published open-source repositories, including payment gateway POCs (Stripe, Razorpay) and full-stack web applications.

## SKILLS

**Languages:** Python, Java, JavaScript/TypeScript, C++, SQL

**Payment Systems:** Stripe, Razorpay, Payment Flow Implementation

**Frameworks:** Flask, Spring Boot, FastAPI, Next.js, React.js

**Cloud/DevOps:** Docker, Cloudflare, AWS, Heroku, Linux, Git

**Databases:** PostgreSQL, SQLite

**Concepts/Methods:** REST APIs, System Design, DSA, Agile/SCRUM, Code Review, Client Engagement, Proposal

## EDUCATION

**Sri Ramakrishna Engineering College**

*Bachelor of Technology in Artificial Intelligence and Data Science*

2020 – 2024

**8.5 CGPA**