Asmiya Sayyad

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Education

Sardar Patel Institute of Technology Aug 2023 – May 2027
B.Tech in Computer Engineering (CGPA: 8.41/10) Mumbai, India
Minor in Banking Technology through a Barclays-sponsored academic program (CGPA: 8.60/10)

Technical Skills

Languages: Python, Java, C++, JavaScript, SQL
Frameworks: FastAPI, Flask, Node.js, REST APIs, React.js, Next.js
Databases: PostgreSQL, MySQL, MongoDB, Neo4j, Pinecone, Chroma
AI/ML: TensorFlow, PyTorch, LangChain, LangGraph, RAG, FAISS, MCP, Prompt Engineering
Cloud & Tools: AWS, GCP, Docker, Git, OAuth 2.0
Data & Analytics: SAP Analytics Cloud, Data Modeling, Dashboarding

Projects

Prompt Optimizer: MCP Server for Gemini Enterprise | GitHub | Demo | Agensi
Python, MCP, Google Cloud Run, Gemini Enterprise, OAuth 2.0
- Deployed a scale-to-zero MCP server on Cloud Run for Gemini Enterprise, with an OAuth-secured, auto-prefilled in-chat form.
- Designed a rule-based engine with **zero** LLM calls that picks from **7** prompting techniques and builds the leanest complete prompt.
- Benchmarked full conversations via the Gemini API, including the tool's own overhead, cutting total tokens by up to **57%**.
- Published it as a cross-agent skill on the **Agensi**, a marketplace of **18,000+** users, usable in Claude Code, Cursor and Codex.

Saarthi: Government Welfare Scheme Assistant | GitHub | Demo
Next.js, Node.js, Neo4j, MongoDB, Gemini
- Modeled **1000+** welfare schemes in a Neo4j knowledge graph, using multi-hop traversal to match citizens to eligible schemes.
- Achieved **99.71%** accuracy on an Indian Sign Language classifier with a self-built 5,250-image dataset for deaf users.
- Developed a text and voice assistant in **23+** Indian languages that checks uploaded documents against eligibility rules.
- Mapped the nearest Common Service Centers with directions, guiding low-connectivity citizens to apply for schemes offline.

CreatorCrew: Content Creator Studio | GitHub | Demo | Website
FastAPI, PostgreSQL, Gemini, FFmpeg
- Designed a DAG orchestrator coordinating **7** AI agents across an 8-stage video workflow, from script to dubbing.
- Implemented a persistent async job queue with stage tracking and retries, auto-running downstream stages once dependencies are met.
- Integrated Parallel web search, Gemini Vision, and FLUX to turn live video references into storyboards matched to creators' camera gear.
- Enforced copyright and brand safety with a 3-level risk-rating agent that pauses flagged jobs for approval.

Publications

Poisoning-Resistant Federated Intrusion Detection System *Accepted, IEEE AI-SIIS 2026*
- Trained a hybrid CNN-LSTM intrusion detector across **10** distributed federated clients in TensorFlow.
- Designed a honeypot-based defense that flags poisoned client updates deviating from expected behavioral baselines.
- Ran controlled experiments at 30% malicious clients, recovering **77%** of clean-baseline accuracy at 16.5% overhead.

Work Experience

Ernst & Young (EY) Jul 2025 – Sep 2025
Business Analytics Intern, AI & Data Mumbai, India
- Developed a 6-page SAP Analytics Cloud dashboard for automated ROI and engagement KPI reporting.
- Standardized **25+** KPIs across a 6-category KPI tree, aligning definitions across four reporting teams.
- Automated predictive ROI forecasts, validating them against historical actuals to surface KPI definition mismatches.

Achievements

- Selected twice for **Amazon ML Summer School** (2025, 2026), top **5%** of 60,000+ applicants.
- **Finalist**, Google India Girl Hackathon 2025, among 58,000+ competitors.
- **National Top 11 Finalist**, EY Techathon 5.0, out of 150,000+ participants.
- **Second Runner-Up**, Accenture × GeeksforGeeks Hackathon, among 38,000+ teams.

Leadership Experience

I.E.T.E. Committee, S.P.I.T. 2024 – 2025
Vice Chairperson Mumbai, India
- Led planning for Bug Buster, coordinating volunteers and logistics for a **300+** participant hackathon.
- Secured sponsorships and organized Code Buster, a 150-participant coding competition.