

Pradeeshwar A

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pradeeshwar

SKILLS

- **Languages:** Python, Scala, SQL, C++
- **Big Data:** Apache Spark (PySpark, Scala), Kafka, Hive, Hadoop, Airflow, Autosys
- **Cloud & IaC:** AWS, OpenShift, Terraform, Ansible, Helm, Jenkins, Docker, Kubernetes
- **Data Platforms:** Snowflake, Apache Iceberg, Couchbase
- **AI/ML:** Multi-agent systems, Google ADK, RAG, LLM systems

EDUCATION

- **Indian Institute of Technology, Madras** Chennai, India
Bachelor of Science - Data Science & Applications January 2021 - May 2024
- **SSN College of Engineering** Chennai, India
Bachelor of Engineering - Electronics & Communication Engineering December 2020 - May 2024

EXPERIENCE

- **Citi** Hybrid
Software Engineer - Big Data & Cloud Platforms July 2025 - Present
 - Designed and deployed scalable **PySpark** pipelines (ingestion, data quality validation, recon profiling, standardization) on **AWS (EKS, S3, SQS, Lambda, Airflow)** with **Snowflake** as the warehouse, processing large-scale financial datasets with high throughput and reliability.
 - Played a lead role in designing and building the infrastructure to convert **10,000+** on-prem to **Snowflake** pipelines into on-prem to **Apache Iceberg (AWS)** pipelines, establishing the migration path ahead of a planned **Databricks** platform move.
 - Partnered directly with customer teams to design bidirectional **PySpark** data sharing: inbound from externally shared **Snowflake** tables into **Couchbase**, and outbound from on-prem **Hive** into **Snowflake**.
 - Built an **L3 Production Autonomous Agent** for pipeline failure triage using a **multi-agent architecture on Google ADK**, diagnosing **Airflow** and **Autosys** failures, identifying root causes, and executing governed remediation without manual first-response triage.
 - Operated data platforms across **OpenShift (on-prem)** and **AWS**, using **Terraform** for cloud infrastructure and **Jenkins, Ansible**, and **Helm** for pipeline deployments.
- **Citi** Hybrid
Technology Analyst - Big Data (On-Prem Hadoop) July 2024 - July 2025
 - Developed real-time data ingestion and reconciliation pipelines using **Kafka** and **Apache Spark (Scala)** for payment platforms handling high-volume transactions.
 - Redesigned a periodic transaction reporting module to resolve production performance bottlenecks, reducing runtime from **~80 minutes** to **~10 minutes on 800M+ records** through **Hive** query optimization.
- **Vessel Match (Startup)** Remote
Co-Founder - AI & Data Systems May 2024 - June 2025
 - Co-founded **Vessel Match**, a full-stack AI platform automating vessel/cargo matching and pre-fixture workflows. **Incubated at Nirmaan, IIT Madras.**
 - Processed **200+** vessels and **150+** cargo listings daily in trials, forged **5 industry partnerships**, and secured **INR 700,000** seed funding and **\$5K AWS credits**.
- **32Mins Digital Consultancy Services Pvt Ltd** In Person
AI Engineer Intern Feb 2024 - May 2024
 - Built a **speech-to-speech translation system** for Indic language dubbing (**AI4Bharat** models: language/gender detection, ASR, NMT, TTS), processing **500+ hours of video** and cutting dubbing time from months to days; piloted with the **Indian Parliament**.

PROJECTS

- **ThinkSpace - Gemini Live Agent Hackathon Project** Devpost 2026
Agentic AI System using Gemini Live API
 - Developed an **agent-based AI system** on the **Google Gemini Live API** with tool-using agents orchestrating multi-step workflows; designed the real-time interaction architecture on **GCP**, provisioned with **Terraform. React.js · FastAPI · GCP · Gemini Live API · OpenCV + Mediapipe**
- **GuruHeal** Application 2025
AI Application
 - Built a full-stack AI platform with multilingual chat and cited real-time web search, architected as microservices with a **Graph RAG** knowledge base and a web search agent. **Next.js · Pydantic AI · FastAPI · Redis · Supabase**

ACHIEVEMENTS & LEADERSHIP

- **Winner - MLH PEC Hacks'24** (Rs.60,000, 36-hour hackathon organized by MLH) · **Runner-up - Smart India Hackathon 2022**
- **Head of Finance, IITM Paradox** - steered an **INR 8M** budget and initiated fest-fee reimbursement for **600+** underprivileged students at one of India's largest student fests (**5,000+ footfall**).