Ajaydeep

Noida, India
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Software Engineer with experience building scalable backend systems, data-intensive APIs, and cloud-deployed products. Strong foundation in SQL, REST APIs, AWS, and Agile development, with hands-on experience delivering production-ready systems used.

Experience

Machine Learning Intern　　　　　　　　　　　　　　　　　　　*(June 2025- July 2025)*
CoE-AIE, JIIT | Remote
- Built an end-to-end multimodal ML pipeline using audio and textual data from 140+ real-world clinical interview sessions.
- Automated speech isolation and feature extraction workflows, reducing overall preprocessing time by ~40%.
- Engineered and evaluated paralinguistic and textual features using COVAREP, training models with improved F1-score.
- Designed reproducible training and evaluation workflows with feature-importance–driven error analysis.

LLM Evaluation Analyst　　　　　　　　　　　　　　　　　　　*(Nov 2024- Apr 2025)*
Outlier | Freelance
- Evaluated LLM outputs for hallucination, factual accuracy, reasoning and policy adherence across diverse task types.
- Designed adversarial and edge-case prompts to to stress-test LLM behavior and identify systematic failure modes.
- Applied prompt engineering techniques to improve output consistency.
- Conducted qualitative and quantitative analysis of response quality, documenting to improve LLM evaluation workflows.

Projects

Orderly : Hybrid Platform for Online Shopping | (Jan 2025 - May 2025) DEMO

A hybrid e-commerce aggregator for unified real-time shopping across major platforms.
- Designed and developed a scalable backend system for real-time e-commerce aggregation across multiple platforms.
- Built RESTful APIs using FastAPI, supporting concurrent users with sub-second response times.
- Implemented caching (Redis) and database indexing to improve performance under load and deployed on AWS using Docker.
- Collaborated on system design decisions following modular and service-oriented architecture.

Environment : Python, FastAPI, Playwright, MongoDB, Redis, Docker, AWS, Vercel

SageML (Aug 2024 - Nov 2024) | LINK
Automated Machine Learning and GenAI-Ready Pipeline Framework.
- Designed SageML, a modular end-to-end ML orchestration framework for automated training and evaluation
- Built GenAI-inspired pipeline abstractions supporting structured and unstructured data.
- Implemented configurable NLP pipelines with automated preprocessing and tuning.
- Architected SageML with RAG- and LLM-oriented design emphasizing grounding and evaluation..

Environment : Python, PyQt6, Pandas, NumPy, Scikit-learn, Tesseract OCR

Education

Jaypee Institute of Information Technology	Noida, UP, India
B.Tech. Information Technology	*(2022-2026)*
Navjeevan Science Sr. Sec. School	Sikar, Rajasthan, India
12th Grade (Senior Secondary Education)	*Score: 96%*

Skills

- **Programming & Backend:** PHP, Python, JavaScript, C++, FastAPI, RESTful API design, backend system development
- **Frontend & Full Stack:** React, HTML, CSS, frontend-backend integration, state handling, responsive UI development
- **Database and Data Management:** MySQL, SQL Server, schema design, transactional systems, data consistency
- **Cloud & Architecture:** AWS (EC2, S3, IAM), Docker, CI/CD, scalable and high-performance system design
- **Product Development:** SDLC, Agile/Scrum, cross-functional collaboration, debugging, performance tuning, code reviews

Publications & Presentations

- SageML: An Automated Machine Learning Pipeline Framework. Featured in Generative Artificial Intelligence: Technology and Applications Chapter 8 (CRC Press), edited by S. Vashishtha, P. Nagrath, D. Varshney, and V. H. de Albuquerque.　　Abstract
- Ajaydeep, P. Madnani, D. Kukreja. (2025). "ORDERLY: An Intelligent Hybrid Platform for Online Shopping System". Paper presented at the 17th International Conference on Contemporary Computing (IC3-2025), Noida, India.　　Certificate

Certificates & Achievements

- Oracle Certified Professional (Data Science Professional 2025)　　　　　　　　　　Certificate
- Principles of Generative AI Certification: Infosys Springboard　　　　　　　　　　Certificate
- API Fundamentals Student Expert: Postman Academy　　　　　　　　　　　　　　Certificate
- PSTSE Scholarship Awardee and State Rank 8 Holder in National Science Olympiad