



JAYRAJ CHOUDHURY
Course : **PGP (1 year)**, AI&DS, 2026
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CGPA :



ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
UG	Information Technology	International Institute of Information Technology, Bhubaneswar	Autonomous	7.6 CGPA	2022
CLASS XII	Computer Science	Kerala Samajam Model School, Jamshedpur	ICSE	86 %	2017
CLASS X	Computer Science	Kerala Samajam Model School, Jamshedpur	ICSE	94.83 %	2015

Subjects / Electives	Statistics, Linear Algebra, DSA, ML
Technical Proficiency	Generative Artificial Intelligence, Machine Learning, Statistical Modeling, SQL, Kubernetes, Docker, Python, Google Cloud Platform, Deep Learning, Terraform, Ansible, Tableau, FastAPI, C++, AWS

SUMMER INTERNSHIP / WORK EXPERIENCE

Framework Engineer, Quantiphi Analytics Solution Pvt Ltd • Worked closely with data scientists and ML engineers to understand their needs and translate them into scalable production systems . • Designed and maintained Kubernetes clusters on cloud for microservices-based architecture, improving deployment scalability by 60% . • Automated build and deployment steps using Bash and YAML , reducing manual tasks for the team by 40% . • Developed and deployed Helm charts for consistent, versioned application packaging and release. • Automated horizontal pod autoscaling and implemented resource limits to optimize workload performance and cost. • Provisioned cloud infrastructure using Terraform and managed configuration using Ansible across dev/staging/prod environments. • Integrated secrets management using HashiCorp Vault and Kubernetes Secrets . • Configured Prometheus, Grafana and Datadog for monitoring basic app metrics during load testing experiments.	Jul 2022 - Sep 2023
Framework Engineer intern, Quantiphi Analytics Solution Pvt Ltd • Created Dockerfiles and containerized ML models for staging environments. • Practised deploying ML models to Kubernetes using kubectl and helped maintain Helm charts for internal tools. • Wrote and debugged basic Ansible playbooks for package installation and environment setup. • Contributed to integrating Docker image builds and pushing them to Docker Hub and AWS ECR as part of the release cycle.	Jan 2022 - Jul 2022

PROJECTS

Database Query Agent - Retail • This chatbot allows users to query their underlying database using plain English and receive accurate answers instantly. To improve accuracy and efficiency, it is being further enhanced with cutting-edge methods inspired by Graph-Reward-SQL, a recent research innovation where the technique of GMNScore and StepRTM is used to ensure correctness and clarity in query structure. • Tools Used: LangChain, SQL, Streamlit	Jun 2025 - Present
AI Resume Analyzer Tool - HR Management • This is an intelligent resume screening assistant which streamlines the initial stages of recruitment. the candidates being processed can upload their resume in PDF format, and the system intelligently guides the application through an automated decision-making workflow. This tool reduces manual effort and improves response time through automatic scheduling of meeting and forwarding of candidate resumes. • Tools used : LangGraph, Google Calendar API	May 2025 - Jun 2025
Agentic RAG - Healthcare • This is a dynamic, graph-based retrieval-augmented generation (RAG) pipeline. It intelligently routes user queries to the appropriate sources of information. The user can upload pdfs and then leverage the chatbot to search on the pdfs content. In case of content not being available in the pdf, agents are powered with scraping tools to fetch content from the web, providing user with appropriate responses. • Tools Used: LangChain, Tavily , DuckDuckGO	Apr 2025 - May 2025

EXTRA CURRICULAR ACTIVITIES

Urdu Poetry Painting

LANGUAGES KNOWN

Bengali, English, Hind
