

Rishab Acharjee

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EDUCATION

National Institute of Technology Durgapur, India

Bachelor of Technology in Computer Science and Engineering

Expected Jun 2026

SGPA: 8.78

TECHNICAL SKILLS

Programming:	C, C++, Python, Java, JavaScript, SQL, HLS C++, Verilog
AI/ML & Gen AI:	Deep Learning (PyTorch, TensorFlow, Keras), Transfer Learning, Reinforcement Learning, Generative AI, RAG, LangChain, LangGraph, Agentic Systems, Vision Transformers, GANs, NLP, Model Optimization (Quantization, Pruning, ONNX)
Big Data & Cloud:	Apache Spark, Kafka, Ray, Hadoop, AWS (EC2, Lambda, S3, EMR, SageMaker), Azure, Databricks, ETL Pipelines
Databases:	PostgreSQL, MongoDB, MySQL, Firebase, NoSQL, Vector Databases (Pinecone, ChromaDB, FAISS), Data Modeling
Web & APIs:	React, Next.js, Node.js, Express, NestJS, REST APIs, GraphQL, gRPC, Microservices Architecture
DevOps & Tools:	Docker, Kubernetes, Git, Bitbucket, CI/CD Pipelines, Software Testing, Agile/Scrum
Core CS:	Operating Systems, Computer Networks, SDLC, Systems Design (HLD & LLD), DSA, DBMS, OOPS

WORK EXPERIENCE

Zluri	Expected Jan 2026
SDE Intern (Incoming) / Offer Letter	Bangalore
Infinity Analytics Consultancy	Oct 2025 - Dec 2025
Data Engineer Intern / Offer Letter	Remote
- Architected real-time data ingestion pipelines using Apache Kafka orchestrated on Kubernetes , enabling elastic auto-scaling and fault-tolerant processing of high-velocity streams from CRM systems (Zoho), Facebook Ads, and third-party vendor APIs.	
- Restructured database schemas for petabyte-scale historical datasets, aligning with AWS S3 bucket structures and implementing Bitbucket -based version control for seamless CI/CD integration across data engineering workflows.	
- Executed large-scale data validation and quality assurance using AWS EMR with Apache Spark , deploying distributed algorithms to detect anomalies, deduplicate records, and ensure schema consistency across massive datasets.	
- Established unified Data Lake architecture with raw, processed, and enriched zones; created automated dashboards for real-time pipeline monitoring, latency tracking, and actionable client reporting.	
BOSCH (BGSW) Pvt. Ltd	May 2025 - Jul 2025
AI Engineer Intern / Completion Letter	Bangalore
- Constructed a Generative AI-powered Data Governance Platform integrating Kafka, IoT sensors, and cloud pipelines for enterprise-scale data management and compliance automation.	
- Orchestrated distributed data workflows on Apache Spark, Ray, and Databricks , integrating Agentic RAG with vector databases to automate validation pipelines, reducing manual checks by 70% and cutting processing latency by 35% .	
- Reduced data errors by 40% and processing time by 30% on petabyte-scale datasets; collaborated with 5 engineers ensuring compliance with enterprise data policies across 10+ departments .	
NIT Durgapur (Prof. Parag Guha)	Jan 2025 - Apr 2025
Research Intern - Hardware-Accelerated AI System	Durgapur
- Engineered a VLSI-based AI system for fruit ripeness detection using Vision Transformer with Transfer Learning , K-Means clustering, and XGBoost, achieving 98.9% classification accuracy with 60 FPS throughput on FPGA.	
- Integrated a Q-learning (Reinforcement Learning) agent to dynamically adjust detection thresholds, enabling self-adaptation to varying illumination and boosting accuracy consistency by 30% across low-light and high-glare conditions.	
- Optimized FPGA acceleration with HLS C++ and Verilog ; reduced power consumption by 25% via INT8 quantization and efficient memory allocation achieving sub-15ms inference latency.	

PROJECTS

Supply Chain Platform: Agentic Approach	Nov 2024
<i>NestJS, Next.js, AWS, CrewAI, Autogen, Docker, LangChain, Firebase, Mapbox</i>	Demo
- Launched a cloud-native logistics optimization platform for 200+ retail outlets ; improved demand forecasting accuracy by 25% using SARIMAX time-series models and Digital Twin simulations for scenario planning.	
- Implemented a multi-agent last-mile routing solution that decreased delivery delays by 20% ; architected hybrid PostgreSQL-Firebase database with RBAC/ReBAC security, remediating 3 critical vulnerabilities.	
RAG Chatbot with Document + Video Support	Aug 2023
<i>LangChain, Streamlit, Python, ChromaDB, Generative AI</i>	GitHub
- Created a Retrieval-Augmented Generation (RAG) chatbot with vector database integration, supporting 50+ PDFs and YouTube links weekly ; integrated Arxiv/Wikipedia APIs, enhancing retrieval efficiency by 60% .	

ACHIEVEMENTS

- Juspay Hiring Challenge 2025:** Qualified for Semi-Finals (**Top 2%** out of 1,00,000 participants) among India's top engineering talent.
- Competitive Programming:** Solved **250+** problems across platforms; Codeforces Specialist (Max Rating: **1447**); **150+** LeetCode solutions.

LEADERSHIP

Senior Coordinator, Inter-NIT Sports Competitions:	Aug 2023 - Present
Managed end-to-end logistics and scheduling for 3+ national-level tournaments, coordinating 100+ participants.	