MUDIT SAJAL

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PROFESSIONAL SUMMARY

AI & Machine Learning Engineer with specialized expertise in Data Engineering, Backend Development, Deep Learning, and Cloud Architectures. Experienced in building scalable RESTful microservices, automated data engineering pipelines, and machine learning workflows using AWS and Python. Proven track record of delivering high-performance AI solutions, optimizing database performance, and building production-grade backend systems.

TECHNICAL SKILLS

Languages:	Python, Golang, JavaScript, SQL, HTML, CSS
Data Eng & Cloud:	Data Engineering, AWS (S3, EC2, Lambda, Glue), Data Pipelines, ETL, Docker, Kubernetes
ML, AI & Analytics:	GenAI, RAG, Prompt Engineering, Deep Learning, NLP, Computer Vision, TensorFlow, Keras, Scikit-learn, Pandas
DB & Frameworks:	PostgreSQL, MongoDB, Neo4j, Django, FastAPI, React, REST APIs, Postman, Tableau

PROFESSIONAL EXPERIENCE

Cloud That **Bengaluru, India**

Research Intern *Present*

- Actively learning and exploring core technologies including AWS cloud infrastructure, Data Engineering pipelines, Generative AI, Machine Learning, and MLOps paradigms.
- Gaining hands-on experience in building scalable cloud workflows, automated data ingestion setups, and model tracking environments.
- Collaborating with senior technical mentors to understand real-world system designs, serverless architectures, and distributed machine learning operations.
- Evaluating industry best practices for data warehousing, ETL pipeline orchestration, and cloud-native AI deployment strategies.

My Storage Space **Bengaluru, India**

Backend Developer Intern *Jul 2025 - Aug 2025*

- Architected 10+ robust RESTful API endpoints using Django REST Framework and PostgreSQL, reducing manual data entry processing time by 40%.
- Implemented database indexing, strict validation layers, and query optimization techniques to ensure high data throughput and operational reliability.
- Achieved 100% endpoint test coverage using Postman and 45+ comprehensive unit tests ensuring production-grade stability and seamless integration.

PROJECTS

Multi-Modal AI Healthcare System **GitHub Repository**

BioBERT, EfficientNet, FastAPI, RAG, AWS, Docker

- Built diagnostic platform integrating fine-tuned BioBERT and EfficientNet models, achieving 95% diagnostic accuracy across complex medical datasets.
- Designed a custom Retrieval-Augmented Generation (RAG) pipeline to ingest unstructured clinical literature, improving model inference accuracy by 12%.
- Built asynchronous REST API routes using FastAPI and containerized the system with Docker for scalable cloud deployment on AWS supporting 200+ concurrent user requests.

High-Performance Go REST API & Data Pipeline **GitHub Repository**

Golang, Goroutines, PostgreSQL, Docker, Kubernetes

- Developed a microservice backend in Golang capable of processing over 5,000 requests per second with sub-10ms response latency.
- Leveraged Goroutines and channel-based asynchronous task execution to scale real-time data ingestion throughput by 3.5x under heavy loads.
- Configured automated health checks, load balancing, and container orchestration using Kubernetes, maintaining 99.9% uptime.

Customer Churn Prediction Data Pipeline **GitHub Repository**

Scikit-Learn, Pandas, Feature Engineering, SQL

- Developed an end-to-end data processing and machine learning pipeline processing 50,000+ customer records to predict subscription churn.
- Implemented comprehensive data cleaning, missing value imputation, automated feature scaling, and class imbalance handling using SMOTE.
- Optimized model metrics via hyperparameter tuning and class-weighting, achieving an 84% ROC-AUC score and improving Recall by 22%.

COLLEGE EDUCATION

BMS College of Engineering **Bengaluru, India**

B.E. in Artificial Intelligence and Machine Learning | CGPA: 8.07/10.0 *2022-2026*

Key Coursework: Data Structures & Algorithms, Database Management Systems (DBMS), Big Data Analytics, Cloud Computing, Operating Systems, Computer Networks, Deep Learning, Natural Language Processing.

SCHOOL ACADEMICS

Munam Public School **Hazaribagh, India**

High School Certificate (10+2), CBSE | Score: 81% *2022*

Focus Subjects: Physics, Chemistry, Mathematics, Computer Science, English.

St. Xavier's School **Hazaribagh, India**

Secondary School Certificate (10th), CBSE | Score: 86% *2020*

Focus Subjects: Science, Mathematics, Social Sciences, English, Hindi.

CERTIFICATIONS

- Deep Learning with TensorFlow 2 - Udemy
- GenAI Powered Data Analytics Job Simulation - TATA (Forage)
- Advanced Software Engineering Job Simulation - Walmart Global Tech (Forage)

EXTRACURRICULAR ACTIVITIES

Event Coordinator, Respawn Club - BMS College of Engineering. Managed event logistics, participant registrations, and operational coordination for college tech & gaming events.

HOBBIES & INTERESTS

- **Professional MMA Training:** Engaging in regular Mixed Martial Arts training to build mental resilience, discipline, physical agility, and focus under high-pressure scenarios.
- **Making Music:** Producing electronic music and creating custom beats, focusing on sound design, rhythm production, and creative composition.
- **Open-Source Exploration:** Building side projects, following cloud-native machine learning advancements, and contributing to open-source developer tooling.