



AKSHAT GADHWAL

Undergraduate, Electrical Engineering

Indian Institute of Technology, Delhi



+91-8905607790

akshatgadhwali@gmail.com

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EDUCATION

Year	Degree	Institute	GPA/Percentage
2023	B.Tech in Electrical Engineering	Indian Institute of Technology, Delhi	8/10
2019	Class XII - RBSE	Rajat Vidhyapeeth, Sikar	96.00 %

WORK EXPERIENCE

Newme

March'24 - Present

Software Engineer

Bangalore

- Designed algorithm for curated payment options and discount on prepaid orders achieving **3% RTO reduction**
- Developed **product ranking algorithm** for higher I2C, increasing top 100 products **sells by 4%** and GM by 6%
- Led the development of India Supply Chain management tool, helping reduce **delivery time from 15 to 9 days**
- Successfully built in-house inventory management module, reducing 18% sourcing time and 5% over payments
- Optimized product reviews approving dashboard, increasing avg per product CTR from 1.2% to 1.8%

Auro Digital

May'23 - March'24

Full Stack Engineer

Delhi

- Building medium frequency OMS multi-tenant platform in a **team of 10** in Python/React/AWS/PostgreSQL
- Optimized orderbook processing **by 40%** using concurrency, in-memory caching and incremental response
- Migrated frontend from EC2 to S3 for **90% reduction** in server cost and **saving 15+** dev hours/month
- Created a Latency tracking dashboard to analyse and spot bottlenecks, helped in reducing latency by **over 25%**
- Implemented Options and Spread algos, increasing the TAM by over 10x, resulting in **300% increase** in revenue

Samsung R&D Bangalore

May'22 - Jul'22

Software Engineering Intern

Bangalore

- Integrated **telemetry** in an IntelliJ plugin in **Java** to identify **top 4 plugin features** with highest popularity
- Utilized Elasticsearch, Logstash and Kibana to analyze and visualize user logs, gaining valuable product insights

PROJECTS

Patient Cost Prediction

Feb'22 - Mar'22

- Developed a ML model to predict the cost of stay in hospital to help patient in financial planning and informed decisions
- Built from scratch using **Logistic Regression** with feature engineering, achieved an impressive **82% accuracy**
- Leveraged **mini-batch gradient descent** for faster model conversion and Lasso model fit with LARS to avoid overfitting

Partial Model Reinforcement Learning

Aug'22 - Dec'22

- Devised a novel RL algorithm incorporating partially modelled system dynamics for **5% faster** convergence and **90% safer** learning
- Successfully tackled **OpenAI's** Inverted Pendulum problem and subsequently redesigned an intelligent agent for Amazon warehouse

Netflix Extension (users from 15+ countries)

Mar'23 - Apr'23

- Created a feature-rich Chrome extension to enhance the Netflix viewing experience by showing IMDB ratings for informed decisions
- Utilized **DOM APIs** for data extraction and manipulation, Used Chrome APIs for content script and service worker communication

OS Memory Allocator

Oct'22 - Nov'22

- Developed a Java program to simulate dynamic memory allocation in OS using a variant of **First-Fit** and **Best-Fit** algorithms
- Implemented using **DLL**, **BST** and **AVL Tree** data structures to achieve optimal memory allocation/deallocation time

TECHNICAL SKILLS

Programming Languages: C++, Python, Java, JavaScript, SQL, Go, R, MatLab, HTML, CSS, Selenium, .Net

Frameworks/Technologies: Flask, Django, NodeJs, Linux, Apache Flink, Apache Kafka, Clickhouse, MySQL, PostgreSQL, CockroachDB, MongoDB, Dynamodb, AWS, GCP, Redis, MVC, Docker, Kubernetes, Git, AWS S3

SCHOLASTIC ACHIEVEMENTS

- Specialist** rating on **Codeforces** with under 40 institute rank, solved over 1000 total problems on DSA
- Open Source** contributor to official **Binance** SDK. Completed **Google-Code-In** (GCI) and **Hactoberfest**