

## EDUCATION

**Birla Institute of Technology and Science (BITS Pilani)**  
Bachelor of Engineering (Hons.) Computer Science (CGPA: 9.30/10)

Pilani, Rajasthan  
June '17 - May '21

## EXPERIENCE

### Goldman Sachs

#### Tech Associate

##### Production Support Copilot

- Building an Agentic AI based **Copilot** for assisting and automating production support activities by reducing MTTR and operation toil leveraging the reasoning capabilities of LLMs
- The tool assists engineers in diagnosing alerts, user support requests, and incidents by leveraging GS specific knowledge from runbooks and recommends a resolution plan for execution with human-in-the-loop

##### Upstream Delay Analysis

- Built a tool to identify upstream jobs (amongst **100s of thousands**) responsible for delay of business-critical milestone
- Root-cause analysis of delay in a distributed job scheduler with **20 million+** jobs
- Reduced the time and manual effort spent (**from days to seconds** in diagnostics and resolution for root-cause analysis
- Awarded Goldman Sachs Engineering Tenet Award (H1-2023) in **Lead with Data** category

##### ML-based Anomaly Detection and Forecasting

- Designed ML models in the domain of real-time anomaly detection using statistical thresholds and time-series forecasting
- Automatic flagging and root causing of critical deliverables using time-series forecasting and xgboost

### Nutanix

#### Intern, Member of Technical Staff

Bengaluru, India  
Jan '21 - Jun '21

- Developed a database of server nodes and their command outputs to enhance developer productivity.
- Mocked hardware output on various commands eliminating the need for procuring expensive hardware for testing

### Goldman Sachs

#### Summer Analyst

Bengaluru, India  
May '20 - Jul '20

- Built a model to predict real-time anomaly in time-series data to predict database unavailability ahead of time using LSTM

## PROJECTS

### Chapter-level summaries of bestselling books using LLMs | [GitHub](#) | [HackerNews](#)

Apr '24 - Jul '24

- Collaborated on a project to automate the generation of summaries for **150+** books available in PDF and EPUB formats.
- **Automatic Text Extraction:** Extract text using **PDFMiner** for PDF files and **BeautifulSoup** for EPUB files
- Divided the content into manageable sections or chapters, and used LLMs via an API to generate both detailed and concise summaries

### Compiler Construction | C | [GitHub](#)

Jan '20 - Apr '20

- Implemented a compiler for a custom language in C
- Implemented lexical analyzer, syntax analyzer, semantic analyzer, and Code generator modules

## HACKATHONS

### Winner - Goldman Sachs Global Engineering Hackathon - Earn Money category

Oct '25

- Engineered a **multi-agent AI system** to automate investment research by synthesizing fundamental (SEC 10-K filings), news sentiment, and technical analyses for 19 equities across five major sectors
- Designed and implemented a novel recommendation engine that aggregates signals from the specialized AI agents using a confidence-weighted ensemble model and a multi-agent debate framework, ensuring evidence-backed investment decisions

### Winner - Goldman Sachs Global Engineering Hackathon - Earn Money category

May '24

- Collaborated with a **11-member** cross-divisional team to develop a optimal **portfolio recommendation tool**
- Suggested investment allocation by identifying similarities across macroeconomic scenarios
- Automated the process of news analysis and summarization using LLMs
- Optimized parallel processing using **MapReduce** to create weekly and monthly summaries emphasizing significant economic trends and development

## PUBLICATION

- Kumar N., Mittal V., Sharma Y. (2021) "A Three-Fold Machine Learning Approach for Detection of COVID-19 from Audio Data". ICCSA 2021. Lecture Notes in Computer Science, vol 12951. Springer, Cham. [Paper Link](#)

## LEADERSHIP AND HONORS

- Mentored **10** women students from low-income communities who are pursuing UG degrees across India by providing them virtual mentorship through Goldman Sachs Catalyst program
- Awarded **Merit Scholarship (Top 2%** out of **1000** students) at BITS Pilani

May '24 - Dec '25

Jun '17 - May '21