

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

Bengaluru, India
July '21 - Present

Alert Management CoPilot

- Building a **CoPilot** for alert management and clustering using LLMs for production support
- Improving the software developer efficiency for low-code tools for automated alert resolution

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

Bengaluru, India
Jan '21 - Jun '21

Intern, Member of Technical Staff

- 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
- Automated the comparison and analysis of hardware data collected by different tools in the hardware abstraction library

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

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

Runners up - Goldman Sachs Intern Coding Contest

July '20

SKILLS

- **Programming:** Python, C/C++, SQL, Java
- **DevOps:** AWS, Terraform, Docker, Git, Gitlab CI/CD, Hadoop

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 **5** women students from low-income communities who are pursuing undergraduate degrees across India by providing them virtual mentorship through Goldman Sachs Catalyst program
- Served on the **judging panel** for BITS Pilani campus hiring, representing Goldman Sachs
- Awarded **Merit Scholarship (Top 2%** out of **1000** students) at BITS Pilani

May '24 - Dec '24

Sept '24

Jun '17 - May '21