Contact

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Top Skills

Creative Problem Solving

Presentation Skills

Computer Literacy

Certifications

Advanced Learning Algorithms

Baseline: Infrastructure

Machine Learning Specialization

Introducing Generative AI with AWS

Deploying Applications

Arpit Shrotriya

Data Engineer & AI/ML Innovator | MS in CS @ NJIT | Architect of LLM-Powered Chatbots & Scalable Cloud Pipelines | Open to AI/ML Opportunities

New York, New York, United States

Summary

I'm currently on an exciting journey pursuing my Master's in Computer Science at NJIT, where I'm diving deep into the world of data and cloud technologies. My passion lies in using these tools to tackle complex challenges head-on. With over two years of hands-on experience as a Data Engineer and Associate Data Scientist, I've had the chance to work on some pretty cool projects that have shaped my skills in Python, SQL, and ETL processes.

One of my proudest moments was at Sail Analytics, where I led end-to-end data engineering projects that not only supported our analysts but also boosted team productivity by 25%. It was rewarding to see how optimizing our BigQuery pipeline management made a tangible difference. Similarly, during my time at VeeyoTech, I developed LLM-powered chatbots that enhanced customer support while fine-tuning BERT models—an experience that truly ignited my interest in machine learning.

I believe in the power of collaboration and continuous learning. That's why I love working with diverse teams to create innovative solutions. For instance, while automating Excel report generation through data pipelines at Sail Analytics, we managed to reduce processing times by 40%, which felt like a huge win for everyone involved!

Outside of work and studies, I enjoy exploring new technologies and contributing to open-source projects whenever I can. Whether it's integrating NodeJS with Google Cloud for scalable systems or experimenting with IoT integrations during my internship at tronX-things, I'm always eager to learn something new.

If you're looking for someone who is passionate about data science and eager to make an impact through innovative solutions this

summer—or if you just want to chat about tech—feel free to reach out via email!

Skills: Python | SQL | ETL | Google Cloud | BigQuery | Machine Learning | Data Engineering | Chatbot Development

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Experience

VeeyoTech
Assosicate Data Scientist
July 2023 - July 2024 (1 year 1 month)
New Delhi, Delhi, India

◦ Developed LLM-powered chatbots for customer support, leveraging Gemini APIs and fine-tuned
BERT models.
◦ Designed and optimized ETL workflows for structured and unstructured data, reducing data processing
time by 40%, enabling faster model training and deployment.
◦ Built and fine-tuned a large-scale NLP pipeline for text classification and sentiment analysis, achieving an 85% accuracy rate on production data.
◦ Engineered scalable data pipelines using Python, SQL, and AWS Lambda, automating the ingestion of 1M+ records per day from multiple data sources, enhancing workflow efficiency by 30%.

Sail Analytics
Data Engineer
June 2022 - June 2023 (1 year 1 month)
Bengaluru, Karnataka, India

• Led end-to-end data engineering projects, supported data analysts in BigQuery pipeline management, data modeling, and actionable insights delivery, boosting team productivity by 25%.

• Built data pipelines for automating Excel report generation and integrated auto-mailer capabilities, reducing manual effort by 30% using Python and HTML. Designed OCR-based pipelines to extract and filter relevant data from client receipt photos, streamlining data processing.

• Collaborated with the Finance team to execute and maintain ETL pipelines for Master and Transactional Data, enabling seamless Power BI and Tableau reporting, improving report turnaround by 30%.

• Integrated SAP HANA and Google BigQuery for secure ETL pipelines, reducing data transit latency by 40%. Developed Dockerized pipelines to process geolocation data from SQL databases, transforming and loading into AWS RDS for scalable analysis.

Roboiotics Services
Data Analyst
February 2022 - May 2022 (4 months)

• Worked on Creating Customised GUIs by integrating and creating design language using Python, PyQT5, SQL and more.

• Login architecture, Schema Design, Api Integration, UX Functionality Implementation were my contributions as a fellow developer.

Playtonia eSports
Developer Intern
August 2021 - January 2022 (6 months)

• Integrating NodeJS, and MongoDB with Google Cloud Platform to develop a scalable monitoring system for the alpha website.

• Worked with the development team on big query analysis of data warehouses used in deployed projects.

Playtonia eSports
App Developer Intern
February 2020 - May 2020 (4 months)

tronX-things
Project Intern
October 2019 - December 2019 (3 months)
Hyderabad Area, India

• Implemented Action on Google Custom Skills for Internet of Things Integration with compliance in different Situations.
• Demonstrated Server Simulations by integrating Firebase Realtime Database with Arduino by using specified Packages.
• Worked on Custom Sandboxes to further research the on-device computation-intensive and statistical Applications.

DRDO, Ministry of Defence, Govt. of India

Research Intern
June 2019 - July 2019 (2 months)

• Implemented Watermarking Techniques using Digital Image Processing and Analytics for further undisclosed Defence Projects.
• Further Understood and Practiced the working of Gas-lasers to implement new ideas in accordance with a new project.

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Education

New Jersey Institute of Technology
Master's degree, Computer Science · (September 2024 - May 2026)

Guru Gobind Singh Indraprastha University
Bachelor of Technology, Computer Engineering · (2017 - 2021)