

Ashish Gusain

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SUMMARY

Data scientist and Machine Learning engineer with 10 years of experience in building end-to-end solutions and managing ML life cycles across various domains. Proficient in ML product development, GenAI solutions, MLOps, and cloud computing.

TECHNICAL SKILLS

Machine learning domains: GenAI (RAG, LLMs), Deep learning, NLP, CV, forecasting

Programming Languages: Python, SQL

Libraries: PyTorch, Llamaindex, FastAI, Chainlit, Langchain, Numpy, Sklearn, Pandas

Tools: Git, bash, Docker, Kubernetes, MongoDB, Azure stack (Azure ML, AI studio, Devops, ACI, App Service etc.), vector databases

EXPERIENCE

Sr. Data Scientist, AI & Data science team

The Chemours company

(Manufacturing giant specializing in performance chemicals)

Mar 2020 – Present

Gurgaon, India

- ChemoursGPT: Built an internal GENAI platform which targets multiple use cases across Chemours. This solution empowers users from multiple departments including finance, R&D, marketing etc. by quickly getting insights, generating content, and thus improving their productivity
- Built a fully cloud native predictive maintenance solution for plant sites in Chemours, which helped stakeholders in making proactive decision on when to go for PMs (planned plant maintenance) for plant equipment
This project was part of the Industry 4.0 initiative and had an estimated savings of approx. \$1M per year
- Improved an ongoing defect identification process of polymer films during their extrusion process by 20%.
This solution classified defects and helped operators reduce the chances of the overall quality of the product from being bad. Using images from shop floor cameras, a computer vision model was built to identify and classify the defects
- Developed a MLOps framework leveraging Azure devops and AzureML for the data science team, which helps them in seamlessly developing, deploying and managing ML models at scale

Data Scientist, Advanced analytics

Course5 intelligence

(Data science consulting)

Sep 2019 – Feb 2020

Gurgaon, India

- Handled a small team of junior data scientists from client location (one of the largest telecom organizations in India), interacting frequently with key business stakeholders, understanding business problems and providing impactful solutions under tight deadlines was a key part of the job
- Built an analytics framework for the marketing team which scraped data from social media websites, processed it and came up with interesting insights in terms of market sentiment, competitor insights and other key trends important for the brand.
This solution was later leveraged by the team in their upcoming campaigns and impacted overall marketing strategy

Data Scientist, India analytics

Oracle-Cerner

Nov 2017 – Aug 2019

Bangalore, India

- Built an automated ticket routing system which intelligently assigned tickets to the appropriate teams. The solution improved overall efficiency by 25% and thus improve the overall SLA response time
- Built a NLP classifier, end to end model pipelines from scratch using SQL, python and served it as a flask API over an on-prem server
- As a phase 2 to the project, I created a solution which automatically grouped similar type of tickets together. The results were further optimized to give the most important topics and were used in a Tableau dashboard

Data Analyst, RBC
Capgemini

Aug 2014 – Oct 2017
Bangalore, India

- Worked for a Canadian bank which provided an array of services to its clients. Most activities of the bank were rooted in fund accounting, insurance and shareholder services.
- Leveraged SQL and R to implement a product recommendation engine for multiple provinces across Canada in terms of various insurance products offered by the bank
- Successfully delivered a framework and created multiple reports for analyzing regular drop in user engagement for the client's internal social networking website using sql and tableau

EDUCATION

PGDM-Business analytics, IMT-Ghaziabad

Aug 2018 – Oct 2019

Bachelors in computer applications, IP University, Delhi

Aug 2011 – July 2014

ACHIEVEMENTS

- Spot award 'Leading by Example' for one of the key projects in Q3 2020- 21
- Awarded NOTT (Knight on the town) twice (Q1 2019- 20 and Q3 2018-19) for creating impact through projects
- Rewarded RB award from the client for excellent and continuous delivery