

# Ashish Gusain

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## SUMMARY

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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 both individual contributor and team roles, with expertise in ML product development, GenAI solutions, MLOps, and cloud computing.

## TECHNICAL SKILLS

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**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

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### 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*

- Created an automated ticket routing system which intelligently assigned tickets to the appropriate teams. The solution improved the overall SLA response time by 30% and was later implemented in other geographies as well
- Built an 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 another solution which automatically grouped similar type of tickets together. The results were further optimized to give the most important topics, investigate root causes and finally 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

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*PGDM-Business analytics, IMT-Ghaziabad*

*Aug 2018 – Oct 2019*

*Bachelors in computer applications, IP University, Delhi*

*Aug 2011 – July 2014*