

KOUSHIK KHAN

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SUMMARY

A data scientist with a master's degree in Statistics and 9 years of hands-on experience in both developing data-driven products and consulting. Proficient in data science, machine learning, and deep learning techniques, with a strong focus on predictive modelling and natural language processing applications. Demonstrated leadership capabilities through managing cross-functional teams, mentoring junior data scientists, and driving strategic initiatives. Eager to leverage my expertise and leadership skills in a dynamic professional environment to lead innovative projects and achieve exceptional results.

WORK EXPERIENCE

Principal Data Scientist

August 2021 - September 2024

S&P Global Market Intelligence

Bangalore, India

- Led a team to develop & maintain essential devops pipelines and predictive models for maritime supply chain & emission products.
- Developed time series models using deep learning to **forecast fuel oil consumption** for container ships, thereby estimating CO_2 emission.
- Engineered a LLM-based application to detect potentially risky bill-of-lading documents by identifying dual-use-goods, thereby **reducing trade financing risk** and **expediting financial decision making processes** by $\sim 13\%$.
- Crafted & operationalized dashboards by enriching the bill of lading datasets, **highlighting emissions by journey and commodity for container vessels** on quarterly basis, helping the ship owners.
- Made a large portion of ETL codebase cloud ready, achieved $\sim 15\%$ **higher revenue** with $\sim 40\%$ **less manual efforts**.

Methods & tech stacks used: **Statistics, Machine Learning, Deep Learning, LLM, Python, PowerBI, DevOps, AWS**

Data Scientist

October 2016 - July 2021

IBM India Pvt. Ltd.

Bangalore, India

- Engineered a tool to streamline tech support ticket analysis using NLP & deep learning, **expedited resolution** by 15% .
- Accomplished an average 10% **sales growth**, across markets, using **market-mix-model** derived from sales and advertisement data.
- Built a contextual search engine with a FAQ dataset using latent semantic indexing, **boosted customer satisfaction** by 20% .
- Designed an automated vehicle diagnostic tool by refining BERT model using transcribed call logs, **reduced false claims** by 10% .
- Developed a recommender system for the Indonesian market, leading to 5% **increase in sales** for breakfast items in local stores.

Methods & tech stacks used: **SVD, Deep learning for NLP, Machine Learning, PyTorch, TensorFlow, Docker, REST API**

Data Analyst

October 2015 - August 2016

BCausE Enterprise Pvt. Ltd.

Noida, India

- Collaborated on identifying potential consumers for an in-house product by developing a customer segmentation model.
- Crafted dashboards simplifying monthly report generation, depicting consumer activities, **reduced manual efforts** by 13%
- Deployed automation tools to scrap customer reviews periodically for the product, helped in upstream jobs.

Methods & tech stacks used: **Clustering, MongoDB, Python, R Shiny**



SKILLS

- **Languages:** SQL, Python, R
- **Frameworks:** PySpark, PyTorch, Power BI, AWS, Docker, REST API, CI/CD, Azure DevOps, Linux
- **Data Science:** Statistical Modeling, Machine Learning, Deep Learning, Natural Language Processing

EDUCATION

- **M.Sc, Statistics:** Visva Bharati University, West Bengal, India 2013 - 2015
- **B.Sc, Statistics:** Visva Bharati University, West Bengal, India 2010 - 2013

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals 
- Microsoft Certified: Azure Data Scientist Associate 
- Microsoft Certified: Azure AI Fundamentals

EXTRA-CURRICULAR ACTIVITIES

- Collaborating as an industry expert with Intellipaat  to teach Statistics and Data Science.