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 - Till Date

S&P Global Market Intelligence   *Bangalore, India*

- Leading a team to develop & maintain essential predictive models and DevOps pipelines for maritime supply chain & emission products.
- Building a time series model 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 a dashboard by enriching the PIERS bill of lading dataset, **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.