

Koushik Khan

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SUMMARY

A seasoned data scientist with a master's degree in Statistics and nearly nine years of comprehensive experience in the data analytics industry. Demonstrated expertise in developing data-driven products as well as in consulting role by utilizing machine learning and deep learning techniques, spanning across predictive modeling and natural language processing applications. Looking forward to new opportunities for leveraging prior experiences and leadership abilities in a vibrant professional setting.

PROFESSIONAL EXPERIENCE

Principal Data Scientist

S&P Global Inc.

August 2021 - Till Date

Bangalore, India

- Leading analytics team to develop essential DevOps pipelines and predictive models for maritime supply chain products.
- Developing a NLP application to classify possibly risky bill-of-lading documents using BERT, reducing trade financing risk.
- Developing a predictive model to forecast fuel oil consumption for container ships, estimating fuel usage before a voyage.
- Deployed legacy codebase to DevOps, boosting product performance with ~ **15% higher revenue**.
- Developed and maintained in-house Python libraries & automation tools, **reduced manual efforts** by **40%**.

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

Data Scientist

IBM India Pvt. Ltd.

October 2016 - July 2021

Bangalore, India

- Developed a NLP application streamlining tech support ticket analysis, **expedited tech support** by **15%**.
- Crafted a banking FAQ retrieval system, gave contextual results and **increased customer satisfaction** by **20%**.
- Implemented a text summarization model using deep learning from customer feedback data, helped in upstream tasks.
- Developed a NLP model to automate vehicle diagnostics from service call logs, **reduced early-stage false claims** by **10%**.
- Accomplished an average **10% sales growth**, across markets, using Market-Mix-Model derived from sales and ad data.

Methods & tech stacks used: Deep learning for NLP, Machine Learning, Docker, REST API, Python

Data Analyst

BCausE Enterprise Pvt. Ltd.

October 2015 - August 2016

Noida, India

- Collaborated on identifying potential consumers for an in-house product by developing a customer segmentation model.
- Developed dashboard with R Shiny to simplify monthly report generation, depicting consumer activities.
- Developed automation tools to scrap customer feedback data periodically from product review page.

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

KEY SKILLS

- **Programming Languages:** Python, R
- **Tools & Technologies:** PySpark, SQL, PyTorch, Power BI, AWS, Docker, REST API, CI/CD, Azure DevOps, Linux
- **Analytics:** Statistical Modeling, Machine Learning, Deep Learning, Natural Language Processing

EDUCATION

- **M.Sc, Statistics:** (CGPA 8.43), Visva Bharati University, West Bengal, India 2013 - 2015
- **B.Sc, Statistics:** (CGPA 8.26), Visva Bharati University, West Bengal, India 2010 - 2013

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals [🔗](#)
- Microsoft Certified: Azure Data Scientist Associate [🔗](#)
- Microsoft Certified: Azure AI Fundamentals

EXTRACURRICULAR ACTIVITIES

- Authoring technical articles for my blog [🔗](#) as well as other platforms [🔗](#).
- All of my past and ongoing projects are listed here [🔗](#).