

# Koushik Khan

*Curriculum Vitae*

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📍 Bangalore, India

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## OBJECTIVE

A seasoned data scientist with close to nine years of industry expertise in developing data-driven solutions. Skilled in applying statistical and machine learning algorithms on both structured & unstructured datasets. Having proven track record of aligning data insights with business objectives, collaborating cross-functionally, and innovating with new modeling techniques. Seeking to leverage skills to address diverse business challenges and drive actionable resolutions in a dynamic professional environment.

## PROFESSIONAL EXPERIENCE

### Principal Data Scientist

S&P Global Inc.

Aug 2021 - Till Date

Bangalore, India

- Direct a team in developing and maintaining essential DevOps pipelines and APIs for maritime supply chain products.
- Develop ML models to classify potentially risky bill-of-lading documents, reducing seaborne trade financing risks.
- Develop models to get quarterly forecasts of GHG emission by ships, leading to make 20% extra revenue for the team.
- Re-engineered a time consuming data processing job to an automated workflow, shooting up team efficiency by 70%.
- Deployed legacy codebase to AWS, boosting product performance by having new clients & 15% higher revenue.

Methods & Tech stacks used: Statistics, Machine Learning, Python (PySpark), SQL, PowerBI, DevOps, AWS

### Data Scientist

IBM India Pvt. Ltd.

Oct 2016 - Jul 2021

Bangalore, India

- Developed a machine learning based application simplifying tech support ticket analysis, expediting resolutions by 30%.
- Envisioned, built and deployed a banking FAQ retrieval system that outperformed existing term-based models by 40%.
- Accomplished an average 10% sales growth, across markets, using Market-Mix-Model derived from sales and ad data.
- Developed text-cleaning & modeling pipelines for IBM Watson sentiment analysis API.

Methods & Tech stacks used: Deep learning with text, Latent Semantic Indexing, Regression, REST API, Python

### Data Analyst

BCauseE Enterprise Pvt. Ltd.

Oct 2015 - Aug 2016

Noida, India

- Collaborated on identifying potential consumers for an in-house product by developing a customer segmentation model.
- Developed automation tools to scrap data periodically from web pages and making them structured.

Methods & Tech stacks used: Clustering, SQL, Python (BeautifulSoup)

## KEY SKILLS

- **Programming Languages:** Python, R and SQL
- **Tools & Technologies:** PySpark, AWS, Docker, REST API, CI/CD, Azure DevOps, Linux, Power BI
- **Analytics:** Statistical Modeling (Regression, Classification, Time Series), Machine Learning, Text Mining & NLP

## 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

## EXTRA-CURRICULAR ACTIVITIES

- Authoring technical articles for my blog [🔗](#) as well as other platforms [🔗](#).
- Exploring and learning new methodologies, tools and technologies to keep myself up-to-date.