# Koushik Khan

S&P Global Inc., Bangalore, India

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## SKILLS

### TECHNICAL SKILLS

- Statistics & Machine Learning
- Programming Languages (R, Python, SQL)
- Data Handling (Extraction, wrangling, analysis)
- DevOps (ETL pipelines in Azure devops and GitHub actions)
- Version Control (Git)
- Dashboard (R Shiny)
- Cloud Service (AWS S3 & EC2)
- Linux (Debian, Ubuntu, Fedora, Shell Scripting)
- Technical Documentation (LaTeX, Markdown)

### SOFT SKILLS

- Teamwork
- Adaptability
- Problem Solving
- Critical Thinking
- Time Management
- Ownership & Communication

## EDUCATION

### M.SC, STATISTICS

Visva Bharati University

2013 - 2015 | West Bengal, India
Thesis: "Joint Modeling of Longitudinal and Time to Event Data"
CGPA: 8.43

### B.SC, STATISTICS

Visva Bharati University

2010 - 2013 | West Bengal, India
Graduated with Honors
CGPA: 8.26

## EXPERIENCE

### S&P GLOBAL, MARKET INTELLIGENCE | Principal Data Scientist

Aug 2021 – Present | Bangalore, India

- Developing Data Driven Products in Shipping Analytics
  - **Product Management:** Developed and maintained data driven products based on maritime datasets
  - **Leadership:** Led a team to manage on-boarding of various datasets and develop data processing pipelines
  - **Data Analysis & Modelling:** Developed models to predict future emissions of vessels travelling on various routes

### IBM | Data Scientist

Oct 2016 – July 2021 | Bangalore, India

- Automated Ticket Classification System using ML
  - Developed an automated system to analyze and classify technical support tickets which had been of a great help for the tech support team
- Text Parsing Pipeline for IBM Watson API
  - Contributed in developing text cleaning pipeline for IBM Watson sentiment detection API
- Serving Search Queries Using a Small Scale Search Engine
  - Developed a small scale information retrieval system on FAQ's for banking domain that had outperformed the existing model significantly.
- Marketing Mix Modelling to Analyze Sales and Advertising Effects
  - Developed marketing mix models (MMM) for various markets across the globe based on sales and advertisement datasets. The models helped our client to increase the sales by $\sim 10\%$ on an average across several markets

### BCAUSE ENTERPRISE PVT. LTD. | Junior Data Analyst

Oct 2015 – Aug 2016 | Noida, India

- Developed automated data cleaning pipelines
- Developed a customer segmentation model to understand potential customers of an in-house product

## PERSONAL PROJECTS

- Development and maintenance of my portfolio [Quarto] - GitHub.io
- A simple automation plan for time series forecasting [Time Series, Python, REST API] - GitHub
- A simple pipeline to package & deploy a machine learning app [ML, Python, REST API, Docker] - GitHub
- Stock price forecasting with LSTM network [Forecasting, Deep learning] - Colab
- Others are described on my portfolio

## EXTRA-CURRICULAR ACTIVITIES

- Writing technical blogs on my portfolio
- Exploring and learning new technologies to keep myself updated