Koushik Khan

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SUMMARY

A results-driven data science professional with a Master's degree in Statistics and nearly nine years of comprehensive experience in the field. Demonstrated expertise in developing and implementing predictive models, data mining solutions, and statistical algorithms to solve complex business problems across various industries. Skilled in programming languages such as Python, R, and SQL, with a proven track record of delivering impactful data-driven solutions that optimize processes and improve organizational performance. Seeking to contribute my expertise and leadership in a dynamic data-centric environment.

PROFESSIONAL EXPERIENCE

Principal Data Scientist   August 2021 - Till Date
S&P Global Inc.   *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 $\sim 20\%$ 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 & $\sim 15\%$ higher revenue.

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

Data Scientist   October 2016 - July 2021
IBM India Pvt. Ltd.   *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   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.
- 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

EXTRACURRICULAR 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.