Koushik Khan

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SUMMARY

A seasoned data scientist with a Master's degree in Statistics and nearly nine years of comprehensive industry experience. Have demonstrated expertise through the utilization of data-driven methodologies for crafting products and services, leveraging machine learning and deep learning techniques, spanning across predictive modeling and natural language processing applications. Keen to harness my experience and leadership capabilities in a dynamic professional environment.

PROFESSIONAL EXPERIENCE

Principal Data Scientist   August 2021 - Till Date
S&P Global Inc.   *Bangalore, India*

- Lead analytics team to develop essential DevOps pipelines and predictive models for maritime supply chain products.
- Develop a NLP application to classify possibly risky bill-of-lading documents, reducing seaborne trade financing risk.
- Deployed legacy codebase to DevOps, boosting product performance by having new clients and $\sim 15\%$ 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   October 2016 - July 2021
IBM India Pvt. Ltd.   *Bangalore, India*

- Developed a NLP application streamlining tech support ticket analysis, boosting resolution time by 30%.
- Envisioned, built and deployed a banking FAQ retrieval system that outperformed existing term-based models by 40%.
- Implemented a text summarization model using deep learning from customer feedback data, helped in upstream tasks.
- Crafted a NLP model for automated vehicle diagnostics from service call log text data generated by TTS engine.
- Developed text-cleaning & modelling pipelines for IBM Watson sentiment analysis API.
- 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   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, MongoDB, Python

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, 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

PERSONAL PROJECTS

- Authoring technical articles for my blog ⤤ as well as other platforms ⤤.
- All of my past and ongoing projects are listed here ⤤.