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. Demonstrated expertise in crafting data-driven products and services, utilizing machine learning and deep learning techniques, spanning across predictive modeling and natural language processing applications. Seeking opportunities to leverage skills, experiences 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, boosted 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 ↗.