KOUSHIK KHAN

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OBJECTIVE

A seasoned data scientist having close to nine years of industry expertise in developing data-driven solutions, adept at data mining, predictive modeling and data visualization as well as in scripting languages like Python, R and SQL. Seeking to leverage skills to address diverse business challenges and drive actionable resolutions in a dynamic professional environment.

SKILLS

- **Programming Languages:** Python, R, SQL
- **Tools & Technologies:** PySpark, Polars, Flask, AWS (EC2, S3, Lambda & Athena), Docker, Power BI, CI/CD, DevOps, Linux
- **Analytics:** Statistical Modeling (Regression, Classification, Time Series), Machine Learning, Text Mining & NLP
- **Soft Skills:** Teamwork, Adaptability and Time Management

PROFESSIONAL EXPERIENCE

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

- Directed a team in building essential devops pipelines and APIs for the core functionalities of maritime supply chain products.
- Boosted team efficiency by ~70% with the development of automation tools for data extraction, processing and reporting.
- Migrated legacy code to AWS that boosted product performance, and led to attracting new clients with ~15% higher revenue.
- Reduced trade financing risks for banking clients by developing ML models to detect dual-use goods in bill-of-lading descriptions.
- Leveraged analytical skills to develop predictive models for forecasting ship emissions and its environmental impacts.
- Acquired proficiency in managing clients, creating analytical reports/dashboards and product demos.

Methods & Tech Stack Used: Data Wrangling, Machine Learning, PySpark, Fast API, SQL, PowerBI, DevOps, AWS

Data Scientist   **Oct, 2016 - Jul, 2021**
IBM India Pvt. Ltd.   *Bangalore, India*

- Orchestrated an automated system streamlining tech support ticket analysis, significantly improving team efficiency.
- Accomplished an average 10% sales growth across markets, using Marketing-Mix-Model derived from sales and ad data.
- Developed REST APIs to integrate AI/ML services into existing product UI, enhancing product value and customer satisfaction.
- Envisioned, built and deployed a banking FAQ retrieval system for clients that outperformed existing term-based models.
- Was instrumental in crafting text-cleaning and text-labelling processes for IBM Watson text classification API.

Methods & Tech Stack Used: Text Mining with ML, Regression (MMM), Latent Semantic Indexing, Python, Flask & Fast API

Junior Data Analyst   **Oct, 2015 - Aug, 2016**
BCausE Enterprise Pvt. Ltd.   *Noida, India*

- Collaborated on identifying the consumer base for an in-house product by developing a customer segmentation model.
- Facilitated my team by developing automation tools for periodically scraping data from web pages.

Methods & Tech Stack Used: Clustering, SQL, Python (BeautifulSoup)

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.