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SUMMARY

A seasoned data scientist with a master's degree in Statistics and nine years of comprehensive experience in the data analytics industry. Demonstrated expertise in developing data-driven products as well as in consulting role by utilizing data science, machine learning and deep learning techniques, spanning across predictive modelling and natural language processing applications. Looking forward to new opportunities for leveraging prior experiences and leadership capabilities in a vibrant professional setting.

PROFESSIONAL EXPERIENCE

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

- Leading a team to develop & maintain essential DevOps pipelines and predictive models for maritime supply chain & emission products.
- Developing a time series model using deep learning to forecast fuel oil consumption for container ships, thereby estimating CO_2 emission.
- Developed a LLM-based application to detect potentially risky bill-of-lading documents by identifying dual-use-goods, thereby **reducing trade financing risk** and **expediting financial decision making processes** by $\sim 13\%$.
- Developed & operationalized a dashboard by enriching the PIERS bill of lading dataset, **highlighting emissions by journey and commodity for container vessels** on quarterly basis helping the ship owners.
- Made a large portion of ETL codebase cloud ready, achieved $\sim 15\%$ **higher revenue** with $\sim 40\%$ **less manual efforts**.

Methods & tech stacks used: Statistics, Machine Learning, Deep Learning, LLM, 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 using deep learning, **expedited resolution** by **15%**.
- Accomplished an average **10% sales growth**, across markets, using **market-mix-model** derived from sales and ad data.
- Developed a FAQ search system with contextual results using latent semantic indexing, **boosted customer satisfaction** by **20%**.
- Developed a recommender system for the Indonesian market, resulting in a 5% increase in breakfast item sales in local stores.
- Implemented a NLP model using BERT to automate vehicle diagnostics from transcribed call logs, **reduced false claims** by **10%**.

Methods & tech stacks used: Deep learning for NLP, Machine Learning, PyTorch, TensorFlow, Docker, REST API

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 dashboard with R Shiny to simplify monthly report generation, depicting consumer activities.
- Developed automation tools to scrap customer feedback data periodically from product review page.

Methods & tech stacks used: Clustering, MongoDB, Python, R Shiny

KEY SKILLS

- **Programming Languages:** Python, R
- **Tools & Technologies:** PySpark, SQL, PyTorch, Power BI, AWS, Docker, REST API, CI/CD, Azure DevOps, Linux
- **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