Aakash Tripathi

Machine Learning Engineer | AI | Data Science | Experimentation

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EXPERIENCE

Mooofarm, Gurugram — *Head of Data and Analytics*

Aug 2021 - PRESENT

- Developed and deployed a cattle facial recognition model using **ResNet50, MLflow, Docker, and AWS Sagemaker** which **saved 500 cattle** from getting hurtful ear tags.
- **Led, designed, implemented a Data Platform** with a data warehouse and ETL data pipelines with 100s of data sources and transactional DBs (MS SQL) using Dataform and Fivetran which **increased the number of analytical queries solved** per week by 10 times.
- Built a chat based Knowledge Management search app on top of an **LLM and Retrieval Augmented Generation** that connected with multiple SaaS apps using APIs allowing internal teams to chat with the documents rather than searching 10s of apps, thus saving numerous hours of work.

Clevertap, Mumbai —*Senior Data Scientist*

Dec 2019 - July 2021

- Implemented a MMoE based **mobile notification recommendation** system using Pytorch and FastAPI which **helped increase in Click-Through-Rate (CTR) by 8%** from previous rule based baseline system.
- Built a BERT based Sentiment detection model which helped identify trends of sentiment on Twitter on different aspects of businesses helping clients identify parts of their businesses that need attention.

Propellor.ai, Pune — *Data Scientist*

Apr 2018 - Dec 2019

- Built **user demographics statistical models** based on content consumption patterns on an OTT platform using SparkML. The models helped in recommending appropriate ads to **users increasing CTR by 5% in the A/B testing** treatment group.
- Implemented a consumer-marketer classifier using XGboost on Twitter data which helped internal teams separate real consumer reviews from marketed ones about a brand.

Sears, Pune — *Business Analyst*

Aug 2017 - Jan 2018

- Worked with a pricing team to build and test **pricing models using Hadoop and Pyspark** of major 75 SKUs for Clearance Pricing Sale **resulting in 7% increase in revenue from the forecast**.
- Analyzed terabytes of data to come up with the final clearance pricing model based on multiple variables optimized for inventory costs and revenue.

Competencies / Skills

Machine Learning, MLops

LLMs, Langchain, Jenkins, CI/CD

Data Analysis and Management

Python, SQL, AWS, GCP

Statistical Analysis and A/B testing

Leadership and Team Management

DevOps principles, Optimizely, Mixpanel

Education

Indian Institute of Technology (IIT) - BHU, Varanasi — B.Tech.

2013 – 2017

Initiatives and awareness

- Built and organized **AI Geeks** offline meetup (1k+ members) in Pune,India where we did hackathons around NLP and Reinforcement Learning problems.
- Initiated "Analytics Weekly" at Mooofarm where every week we presented data findings to other teams to spread usage of data and advanced analytics.
- A teacher and mentor for college grads interested in Machine Learning and AI at Prepleaf for 3 months.