Abhinandan Pathak

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EXPERIENCE

Data Science Associate Consultant July 2023 – Present
ZS Associates *Bangalore, KA*
- Collaborating with multiple teams to understand the impact of recommendations sent.

Data Science Associate June 2021 - June 2023
ZS Associates *Bangalore, KA*
- Communicated with clients to understand the requirements and framed it into problem statements
- Worked as a developer on a ML based recommendation engine product for a fortune 500 pharmaceutical clients
- Mentored colleagues to quickly get on-boarded on existing projects.

PROJECTS

Analytics commercial engine | *Python, PySpark, Docker, Git, Bitbucket, Airflow, Kedro, S3*
- Scaled this product to various drugs
- Integrated a sequence recommendation through various promotional channels.
- Retrained the ML models as and when data drifted or model performance decreased.
- Created features for modelling from raw data.
- Automated the process of delivering files to Business users for review.

JET | *Python, PySpark, Git, Bitbucket, DataIKU*
- Hard retrain the ML models for various brands and deploy them to production.
- Complete ownership of deliverable of results on time to marketing team.
- Created complete timeline for ML Operations to get maximum impact.
- Delivered and communicated the results to clients.

Promotion Response and Touchpoint Optimization | *Python, Gekko, Statsmodel, Databricks, S3*
- Processed the marketing and Sales data for it to be ready for modelling.
- Created a Linear regression model to understand the impact of promotion on Sales.
- Optimized the allocation of budget to different promotional channels to generate maximum revenues.
- Deployed the final pipeline on Databricks

TECHNICAL AND SOFT SKILLS

Languages: Python, Pyspark, SQL, C/C++, Matlab, R
Deep learning Frameworks: Pytorch, Tensorflow
ML Libraries: ScikitLearn, Statsmodels, Optuna, HyperOpt, Numpy, Pandas
ML models: Linear Regression, Logistic Regression, Random Forest, XGBoost, LGBM, Transformers
Developer Tools: Git, Docker, Visual Studio Code, JIRA
Orchestration Tools: DataIKU, Airflow
Presentation Tools: MS Powerpoint, MS Excel, MS Word
Soft Skills: Client Communications (US and APAC region)

EDUCATION

National Institute of Technology Karnataka 9.01 CGPA
Bachelor of Technology in Electrical and ELectronics Engineering *Aug. 2017 – May 2021*
The Oxford senior secondary School 93.4 %
AISSCE-CBSE *April. 2014 – Mar 2016*

PUBLICATIONS

1. Teena Johnson, Abhinandan Pathak, Shantanu Ajay Arya, Sagar Dipesh Dahanuwala, Prathamesh Gachhi, and Tukaram Moger. Case studies of event detection for indian power system using signal processing methods. In *2021 31st Australasian Universities Power Engineering Conference (AUPEC)*, pages 1–6, 2021 ([PublicationLink](#))

2. National Institute of Technology Karnataka. Method and system for major event detection in a power system. Number 408104, 2022 ([PatentLink](#))