

Partha MANDAL

Senior Data Scientist, Delivery Hero | BNPL, Fraud ML, DL, LLM | IIM Bangalore

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TECHNICAL COMPETENCIES

Use Everyday	Pandas, Python, Numpy, LightGBM, Scikit Learn, SQL, Git / Github, VSCode, Airflow, Vertex
Use Frequently	Pytorch, H2O, Bash, Numba, HuggingFace, PySpark, Polars, Docker, Streamlit, Selenium
Use Sporadically	Github Actions, Altair, Vaex, HyperOpt, PyMC3, Alteryx, PowerPoint, Tableau, ETL X, Gemini

PROFESSIONAL EXPERIENCE

Present December 2021	Senior Data Scientist, DELIVERY HERO, Berlin <ul style="list-style-type: none">> Productionized card fraud model for continental entity, 15+ countries, with performance of F1 14%, saving xx K€ / m in charge backs, and <i>reducing</i> customer friction of xx M€ / m GMV in 3DS reviews> Launched lending scoring, scaling to 100K users, <i>calibrated</i> and A/B tested credit upgrade model, achieving 7x limit increase. Built airflow pipelines for auto retrain, reducing deployment time by 80%> Set up cash fraud model for another entity, 10+ countries, saving xx K€ / m in "unreachable" orders> Built aspect based sentiment analysis, using Google Gemini, prompted to categorize customer complaints into topics and sentiments (à la <i>delivery good, food bad</i> etc.), with 100% precision improvement> Automated charge back email processing, worth 4+ manual hours/day, generating x K€ / m savings> Deployed metrics anomaly detection model, 30 countries, worth 1 manual hour/day, saving x K€ / m> Delivering 6+ projects, managing multiple peers, liaising with multinational Engg. and Business teams <div>LightGBM Optuna BigQuery GCP Python Pandas Numba Polars Gemini ONNX PySpark Airflow</div>
October 2021 June 2018	Data Scientist Consultant Senior Associate, PwC US ADVISORY (DIAC), Bangalore <ul style="list-style-type: none">> Deployed escalation models for US bank client, using H2O, with performance of recall 90% and F1 26%> Appraised ATM network by geolocation overlapping for US bank, optimized <i>vendor</i> selection by 25%> Built LDA Topic Modelling to automatically extract customer complaints with top 3 accuracy of 80%> Managing 2 project teams (2+ associates), driving key deliverables, liaising in a multinational setting <div>LightGBM Isolation Forest HyperOpt Python Pandas Numba GeographicLib NLTK spacy pyLDAvis</div>
May 2016 May 2015	Associate Business Analyst, ZS ASSOCIATES, Pune <ul style="list-style-type: none">> Identified target patients, market positioning for US drug launch with expected sales of \$3B by 2020> Team Lead, ZS Innovation Challenge - automated data loading and standard QCs, time saving of 30% <div>TeraData SQL Python Bash Selenium Sas Random Forests</div>
May 2015 September 2013	Programmer Analyst, COGNIZANT, Kolkata <ul style="list-style-type: none">> Automated daily SQL scripts across 65+ markets using <i>PowerShell</i> cutting 80% in manual processing <div>SQL PowerShell Python</div>

DATA SCIENCE COMPETENCIES

NORTHEASTERN SMILE LAB - RECOGNIZING FACES IN THE WILD (RANK #6 IN LB) kaggle Determining the kinship of two given faces (of multiple ethnicities, different ages etc.) using Siamese Nets with 91% AUC <div>Keras TensorFlow Pytorch Python Bash</div>
BENGALI HANDWRITTEN GRAPHEME IDENTIFICATION (TOP 11% IN LB) kaggle Predicting handwritten Bengali graphemes (13,000 possible variations w.r.t 250 in English) with 93% macro recall <div>Fast.ai Pytorch Python Bash</div>
REPOSITORY : COLABCODE - SET UP VS CODE ON GOOGLE COLAB github <div>Python subprocess Colab Code-server Bash</div>
BLOG : NOTION + CLOUDFLARE AS A BLOG SERVICE notion.partha.workers.dev <div>Notion Cloudflare Workers JavaScript</div>

EDUCATION

2016-18	MBA at Indian Institute of Management Bangalore (PGP) with CGPA of 3.06/4.00 and GPA of 3.87 in Business Analytics and 3.66 in Big Data Analytics - International Exchange term at Kedge Bordeaux, France
2009-13	Bachelor of Engineering in Electronics and Communication at Jadavpur University, Kolkata with CGPA of 8.86/10.00 - and a state rank of 92 (Engg.) and 73 (Med.) out of 300K+ candidates