

ADITYA MISHRA

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SUMMARY

I am a Machine Learning Engineer working at the intersection of Machine Learning and Software Engineering.

SKILLS

Python, ReactJS, Django, AWS, Heroku, CircleCI, Hadoop, Deep Learning Frameworks (Keras, TensorFlow, FastAI, PyTorch)

EXPERIENCE

June 2018 - PRESENT

difference-engine.ai, Mumbai - Machine Learning Engineer

- **Credit-scoring for B2MicroSME Lending Platform**
 - ETL Pipeline: Schema transformation from product database (OLTP) to analytics-ready format (OLAP), orchestration and monitoring using **AirFlow**
 - Modelling: Tree-based ensembles (**sklearn** random forest, **xgboost**, **catboost**)
 - Deployment: **Flask** api with **Waitress**, JSON Web Token based authentication
- **Digital Marketing Automated Report Generation**
 - ETL pipeline
 - Processed **130GB+** data, generated **34,000+** reports in **6 hours**.
 - Stack: **Pandas+multiprocessing, MySQL+SQLAlchemy**
 - Best Practices: CI/CD using **CircleCi**, integration and unit tests using **pytest**, ETL pipeline orchestration and monitoring using **AirFlow**
 - **Frontend: React app**
 - Report Generation: The system looked at 250+ metric movements and identified the ones with highest impact on visit counts, goal conversions, user engagement and bounce rate optimisation for reporting.
- **Student Churn Prediction from student-engagement data**
 - Feature Engineering: Features extracted from student emails, calendar invites, text messages, call recordings and chat logs on **LINCtrac** platform, between support staff and students
 - Modelling: Trained tree based models such as random forest, xgboost with catboost performing the best and achieving **0.96 ROC-AUC** score.
 - End-to-end model training and testing was done on **AWS** ec2.
- **Web App to annotate Supreme Court Judgments**
 - Scraping and Parsing: Supreme Court Judgments from 1950 to 2019 using **requests**, **beautifulsoup4**, and **tika-python**.
 - Deployment: **RDS**, **Heroku** and **unicorn**

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- **Information Extraction from Identity Documents (PAN Cards)**
 - Modelling: Object (PAN Card Image) Detection and Extraction with Mask R-CNN, Text Extraction with **tesseract ocr** (pytesseract)
 - Deployment: **Flask** api, api responsiveness stress-tested with **Locust**

October 2017 - January 2018

GreyAtom School of Data Science, Mumbai - Machine Learning Intern

- Developed data science course materials for internal training in finance
- Integrated machine learning models into [GreyAtom's Learning Platform](#).

October 2017 - November 2017

Accelo Innovation Private Limited, Mumbai - Machine Learning Intern

- Testing deep learning algorithms to detect instances of objects in real-time
- Implemented Object Distance Measurement by Stereo VISION to approximate distance between an object and a camera

ACHIEVEMENTS & CERTIFICATIONS

- *Intel Scene Classification Challenge - AnalyticsVidhya (2019)*
 - **22nd rank** among **3000+** competitors
 - ResNet50 backbone initialised with places365 weights (transfer learning)
 - Used FastAI to build models, which has many state of the art techniques such as Mixup Augmentation, Cyclic LR, Ensembling, TTA
- *TCS Codevita Season V - TCS (2017): Top 1% among 1 lakh+ competitors*
- *Mumbai Hackathon - DBIT (2017)*
 - **2nd Rank** among 60+ teams (working professionals and students)
 - Detected Skin Cancer & Diabetic Retinopathy from images (Deep Learning)
 - Transfer learning with **InceptionNet** using Tensorflow
 - Deployment: Web app using **Flask** and **Materialize CSS**
- Oracle Certified Professional, Java SE 6 Programmer (2017)

EDUCATION

Mumbai University, August 2014 - June 2018 : B.E in Computer Science (**8.8** CGPA)