

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, React JS, Django, AWS, Digital Ocean, Linux, Heroku, CircleCI, Hadoop Frameworks like - Keras, TensorFlow, Fast AI

EXPERIENCE

June 2018 - PRESENT

difference-engine.ai, Mumbai - Machine Learning Engineer

- Worked on a credit-scoring system for a B2micro lending platform. Involved a lot of **data engineering** as it required collating data from different data sources and processing them to a form which could be digested by the model. Developed a credit scoring model using tree based ensemble (**xgboost**) and deployed it as a **flask** app.
- Developed a reporting tool that processed **130GB** of data and generated reports in just **6 hours**. This was achieved by developing a sophisticated **ETL pipeline**. Implemented **CI/CD workflow** using CircleCi which ran **integration** and **unit tests** before deployment. It was deployed as a **react app** using gunicorn. The developed system provided call of action that would help analyse the functioning of the business better.
- Developed a daily student dropout rate predictor for a Singapore based educational firm. The data was aggregated and collected from different communication methods between the firm and the students. Trained a Catboost model on an **AWS EC2** instance and achieved very good results.
- Developed a system to annotate legal data which involved **scraping** supreme court reports from 1950 to 2019, parsing the reports and saving them to **RDS**. The resultant system was then deployed on **Heroku**.
- Prototyped a system to automatically detect and extract data from images. This was achieved by training an **Object Detection** model that extracted out the document (multiple) in an image and passing them through a **OCR** pipeline to extract data from it. The entire pipeline was then served as a **flask** api.

October 2017 - January 2018

GreyAtom School of Data Science, Mumbai - Machine Learning Intern

- Develop data science and machine learning course materials for company employees working in financial sector.

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- Work closely with software development teams to ensure accurate integration of machine learning models into firms platform.

October 2017 – November 2017

Accelo Innovation Private Limited, Mumbai – Machine Learning Intern

- Deploy deep learning algorithms to detect instances of objects in real-time
- Develop solutions to approximate distance between an object and a camera

ACHIEVEMENTS

- 2nd Rank at Mumbai Hackathon organized by DBIT (2016)
 - Developed a CNN classifier to classify skin lesions into malignant or benign cancers
 - Built a system to detect the severity of Diabetic Retinopathy
 - Transfer learning with Inception Net, trained on Kaggle Dataset and using augmentation, image preprocessing and other techniques helped us achieve 2nd place
- Top 20 rank in Intel Scene Classification challenge among 3000+ competitors
 - Used transfer learning with ResNet50 as the pretrained model. The base model was initialized with Places365 weights. Used FastAI to build models, which has great default parameters & many state of the art machineries built in it. Techniques such as Test Time Augmentation, Mixup Augmentation, Cyclic LR, Ensembling and other techniques helped me climb up the leaderboard.
- Ranked within top 1% in TCS Codevita 2017 among students.

EDUCATION

August 2014 – June 2018

Mumbai University – Bachelor of Engineering in Computer Science

Graduated with **8.8 CGPA** (A Grade)

CERTIFICATIONS

- Oracle Certified Professional, Java SE 6 Programmer (2017)