

Aman Sawarn

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SKILLS

PROGRAMMING

Python and iPython Notebook
Tensorflow
SQL
HTML
Google Cloud Platform (GCP)
Git and Github
MongoDB
Shell Scripting (Bash)
Plotting, cleaning and data Mining tools

DEEP LEARNING

Neural Networks
Natural Language Processing
Long Short Term Memories (LSTM)
Convolution Neural Networks (CNN)
Attention
Transformers
BERT

MACHINE LEARNING

Logistic Regression
Decision Trees
Random Forests
XGBoost and other Ensembles
Recommendation System
Natural Language Processing

EDUCATION

DEEP LEARNING

COURSERA- DEEPLARNING.AI
| Stanford University

MACHINE LEARNING

COURSERA
| University of Michigan

B.TECH

MAHARAJA AGRASEN INSTITUTE OF
TECHNOLOGY
June 2020 | New Delhi, IN
B.Tech in Electrical and Electronics
Engineering

LINKS

Github:// [amansawarn](#)
LinkedIn:// [amansawarn](#)
Twitter:// [@aman_sawarn](#)

EXPERIENCE

HT MEDIA LTD. | DATA SCIENTIST

June 2020 – | Gurgaon, IN

- **CV Parser**
 - Built an in-house CV Parser for to replace to third party CV Parser for **shine[dot]com-A HT Media company** .
 - Cleaned, explored and trained models on large datasets and Integrated it with the Hybrid Application.
 - Saved **0.01 \$** per job apply for the recruiting firm, **contributing twenty percent of total cost-cutting during pandemic.**
- **Recommender System**
 - Built a recommender system for **Shine Learning platform.**
 - Performed A/B testing for different algorithms, hypothesis and business metrics for new updates on portal.
 - Increased Average Time on page by 31 % in first month itself and **CTR by 0.04.**

PROJECTS

REDDIT FLAIR TAG PREDICTION

- Scrapped Data from **Reddit India** website
- Performed data cleaning, exploratory data analysis, stemming, lemmatization to make data ready for modelling.
- Build various models using Logistic Regression, SVMs, Decision Trees and Random Forests, and did model analysis using confusion matrix, f1 scores and AUC scores.
- Deployed model using herokuapp.
- Live link **here**. Code and documentation **here**

DONOR CHOOSE PREDICTION

- Built a Model to automate funding for school children.
- Performed tokenization, stemming, text cleaning followed by a baseline model using Decision Trees and Random Forests.
- Used various neural network architectures exploiting tensorflow functional APIs and improved metric results.
- Deployed model using herokuapp.
- Live link **here**. Code and documentation **here**

PUBLICATIONS

MEDICAL REPORT GENERATION USING X-RAY IMAGES

- Worked at the intersection of Computer Vision and Natural Language Processing to generate medical report generation from chest X-Ray images.
- Worked on multi-stage architectures and global attention mechanism to increase sensitivity and specificity towards information gathered in X-Ray images and generate better reports.
- Got BLEU-1, BLEU-4 and ROUGE scores better than all SOTA papers using least number of parameters. Paper currently under review.