

AMAN SAWARN

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WORK EXPERIENCE

Data Scientist at Hindustan Times Media- Shine.com

Oct 2020-

- Working on a recommender system for Shine Learning portal (e-Learning Marketplace) and which is expected to increase traffic by 20-38 percent(%)

Data Science Intern at Hindustan Times Media- Shine.com

June 2020-Sep 2020

- Built a NER Model for Resume Parser and improved F1 score
- Model replaced third-party CV Parser and saved more than 25 lacs per annum to company

Data Science Intern at Toffee Insurance

Summer 2019

- Build a fraud detection system to predict claims on insurance policy sold and got an ROC AUC of 0.84 from previous score of 0.70. Interpreted the model using weights from Logistic Regression Model.
- Retrained and maintained the sales and claims prediction model.

Data Science Contributing Writer

Dec 2019-

- Keras for Multi label Multi Class Text Classification in Towards AI
- GANs using MNIST Data in Towards AI
- Why Batch Normalisation matters? in Towards AI

NOTABLE PROJECTS

Medical Report Generation Using X-ray Images

Dec 2019 – April 2020

- Takes X-Ray Images as Inputs and Generates medical report in form of text as output.
- Built it using an Encoder-Decoder Architecture.
- Built it using pre-trained weights from Inception V3 Networks, and used them as features for the encoder layer. Used Visual Attention in Decoder Networks to focus on certain parts of X-Ray images. Paper submitted to CVPR 2021

Reddit Flair Detection

- Scraped Data from Reddit India website, Cleaned it and performed Exploratory Data Analysis(EDA) on it.
- Built ML models using Logistic Regression, Decision Trees, Random Forests and XGBoost
- Deployed the ML model using Heroku. [Deployed URL](#) [Automated Testing](#) [Github](#)

Donors Choose Automation

July 2019 -Aug 2019

- Built a model to automate funding of science projects for school students.
- Did tokenization, stemming, text cleaning followed by a baseline model using Decision Trees and Random Forests
- Used various neural network architectures exploiting tensorflow.keras functional APIs and improved metric results

EDUCATION

Bachelor's in Technology (B.Tech) in Electrical and Electronics Engineering August 2016 - May 2020
Maharaja Agrasen Institute of Technology, New Delhi, GPA: 7.40/10

Rashtriya Military School Chail (2008-2015), Intermediate 84%

RESEARCH PUBLICATION

Aman Sawarn, Ankit, Monika Gupta "Comparative Analysis of Bagging and Boosting Algorithms for Sentiment Analysis" in Procedia Computer Science and Elsevier Journal.
Feb 2020

COURSES & MOOCs TAKEN

Engineering Mathematics, Machine Learning Specialization(Total 4 Courses from University of Michigan), Deep learning(deeplearning.ai on Coursera)

TECHNICAL SKILLS AND INTERESTS

Software Languages	Python, C++
Tools and Packages	Tensorflow, Keras, Scikit Learn, Numpy, Pandas, Matplotlib, SQL, NLTK, Gensim, Microsoft Access, Flask, Microsoft Excel, HuggingFaces
Interests and Skills	Deep Learning, Machine Learning, Data Cleaning, Data Analytics, Data Visualization, Problem Solving
Machine Learning & Deep Learning	kNN, Naive Bayes, Logistic Regression, Support Vector Machines, Decision Trees, Ensemble Techniques along with feature Engineering Neural Networks, Multi-layer Perceptron techniques like Batch Normalization, Dropouts, various optimizers like Adam, Adagrad. CNNs, LSTMs, Sequence2Sequence models, Encoder Decoder Architectures, Text based Attention, Visual Attention And Mathematics behind them. Model Tuning, Hyper parameter optimizations.

ACCOMPLISHMENTS & LEADERSHIP

- Selected for Facebook Udacity Private AI Challenge Scholarship
- Took Machine Learning Sessions under IEEE local student chapter and mentored over 40 juniors in building projects and getting them started with the field
- Secretary Career and Development cell of my college
- Runners Up IOSD Hackathon 2019
- Won various Debate and Quiz competitions at various Inter College events