ADITYA TOTLA

Machine Learning Researcher &

Developer

PERSONAL INFORMATION

Experienced Data Science and AI enthusiast with a demonstrated history of working in solving real-world problems using Data Science tools technologies like Machine Learning and Deep Learning. Seeking a challenging opportunity in an organization which recognizes and utilizes my true potential and sharpens my current knowledge while nurturing analytical and technical skills.

WORK EXPERIENCE

Jan 2020 - Present
Indore, M.P.

DEEP LEARNING RESEARCHER & DEVELOPER

Tech Driven Basic

In my current role at Tech Driven Basic (Startup) –

- I worked extensively with data modeling in deep learning and machine learning to solve real-life problems.
- Reading research papers and researching regarding the problems and implementing it into well-structured code.
- I am also working as a team lead where I am responsible for handling client meetings, discussing the business problem, taking suggestions and implementing the same with my team.

Oct 2019 – Dec 2019
Indore, M.P.

Machine Learning Intern

Yuvasoft Solutions Pvt. Ltd.

As a Machine Learning Intern my responsibilities were –

- Analyzed huge chunk of data including steps like data cleaning, data manipulation using Python libraries such as Numpy and Pandas.
- Visualizing data using MatplotLib as well as creating a Tableau dashboard and representing it to my senior. This experience allowed me to drastically expand my predictive analytics and business intelligence skills.

EDUCATION

Feb 2019 – Aug 2019
Noida, U.P.

POST - GRADUATION DIPLOMA
BIG DATA ANALYTICS

Centre for Development of Advanced Computing (CDAC, Noida)

2013 – 2018
Indore, M.P.

BACHELOR's in ENGINEERING
ELECTRONICS & COMMUNICATION ENGINEERING

RGPV

2012 – 2013
Ujjain, M.P.

HIGHER SECONDARY SCHOOL
MATH's

CBSE

CONTACTS

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DEVELOPMENT SKILLS

- Python
- R
- SQL & NoSQL
- TensorFlow 2.0
- OpenCV
- Django
- MongoDB
- Tableau
- Hadoop Ecosystem

HARD SKILLS

- Data Manipulation
- Data Visualization
- Machine Learning
- Deep Learning
- Data Analytics

SOFT SKILLS

- Peer Mentoring
- Sound knowledge of latest technology
- Active Learning
- Adaptable
- Proficiency in communication & interpersonal skills

CERTIFICATIONS

- Deep Learning Specialization - Coursera
- Deep Learning Fundamentals - IBM
- Machine Learning with Python - IBM
- Data Analysis with Python - IBM

ACHIEVEMENTS

- Passed LinkedIn skill assessments in Machine Learning, R, MySQL, MongoDB, and OOP.
- Inter College Rapid Chess Champion is given by All India Indore Chess

PROJECTS

❖ Deep Learning / Computer Vision

1. Invoice Automation using Deep Learning & OCR

Brief: Automating the manual data entry work by training deep learning model on variable format invoice images and extracting information using OCR and saving the data in CSV or in databases.

Tools: YOLO-V3 (Object Detection), PyTesseract, LabelImg, Regular Expression, etc.

2. Multiple Object Detection using SSD and Faster R-CNN

Brief: Using Single Shot Detector we can detect multiple objects within the image only in one single shot. Similarly, using Faster R-CNN we can detect multiple objects more accurately then SSD.

Tools: OpenCV, TensorFlow (SSD), Keras (Faster R-CNN), Python, Pandas, GPU, Colab, LabelImg, etc.

3. Time Series Forecasting using RNN and LSTM

Brief: Using RNN to precisely predict the future stock prices of Google by analyzing 5 years of historical data.

Tools: Keras, MatplotLib, Numpy, Pandas, Spyder IDE, etc.

4. Binary Language Classifier using Keras Word Embedding (Kaggle)

Brief: Analyzed and manipulate huge chunk of textual data and applied Keras Word Embedding Neural Network to classify the text language.

Tools: Keras, Numpy, Pandas, Kaggle, etc.

❖ Machine Learning / Predictive Data Analytics

1. IMDB Movie Database Analysis and Visualization (Kaggle)

Brief: Analyzed IMDB hollywood movie dataset and created visual insights.

Tools: MatplotLib, Seaborn, Numpy, Pandas, etc.

2. Crop Sowing Prediction

Brief: Crop sowing prediction uses machine learning model to predict the type of crop farmer should sow on the basis of attributes like season, temperature, humidity etc.

Tools: ScikitLearn, Numpy, Pandas, etc.

❖ Natural Language Processing

1. Sentiment Analysis of Amazon Customer Reviews (Kaggle)

Brief: Sentiment analysis is a technique that detects the underlying sentiment in a piece of text. Classifying text as positive, negative, or neutral. ML algorithm was used to evaluate & determine the sentiment behind it.

Tools: NLTK, WordCloud, Scikit-Learn, MatplotLib, Seaborn, Numpy, Pandas, etc.

❖ Web Development / Data Analytics

1. API Development of Machine Learning Model

Brief: Deployed Machine Learning API created using Django web framework on Heroku Cloud Platform

Tools: Python, HTML5, Django Web Framework, Heroku Cloud, etc.

❖ Hadoop / Big Data

1. Social Sentiment Analysis on Twitter Data

Brief: Analysis on Twitter data for a specific movie, brand, or any specific keyword. To analyze the sentiment of millions of citizen and know their opinion so that a decision can be taken according to citizens.

Tools: Big Data, Hadoop, HDFS, YARN, Map-Reduce, Pig, Hive, etc