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Dhnesh Dhingra
Data Scientist

SUMMARY

Dhnesh is a Machine Learning Engineer with 4+ years of Experience in building data-driven applications. Proficient in creating predictive modeling, analyzing data mining algorithms, and data preprocessing. Strong problem solving, analytical skills and a significant ability to work in team environments.

TECHNICAL SKILLS

`Numpy` `Pandas` `MySql` `Scikit-learn` `Tensorflow` `Keras` `NLTK` `Django` `AWS` `Open-CV`
`Gensim` `JavaScript`

PROFESSIONAL EXPERIENCE

Data Scientist   Jan '16 - Jun '21

Esferasoft Solutions   Chandigarh,India

Summary of Projects

- **SEO Tags Recommendation Using NLP (Gensim,NLTK,Tensorflow,Quepy)**

Used pre-trained Word2vec word embeddings for text articles as inputs for SEO Tags Classification. Trained the model with 40k different relevant HTML tags on Bidirectional LSTM using Tensorflow. Achieved an accuracy of 76% after applying various hyperparameter tuning techniques.

- **Motion Capture for Human Pose Estimation (OpenCV, Pillow, Scikit-Image, Keras)**

Automated Data Preprocessing and Data Agumentation for thousands of images in sync with AWS S3 Buckets. The goal is to create an optimized automated data pipeline of input images to do Masking, Rescaling, Gaussian Blurring, Pixelating of different types of images, and creating data segments for Training CNN Based Models. The result is removal of unnecessary noise and an improved model which learns the pixel features of the images effectively thereby enhancing the accuracy.

- **A Prototype for Social-Personality Detection (CoreNLP, Spacy, Tensorflow)**

 Preprocessing Steps involved Document Level and Word Level Feature Extraction with Filtering Sentences that do not carry any Personality Clues. Experimented with our model architecture on FastText and TextCNN for better understanding of the problem.

- **Targetted Advertisement-Recommendation Engine (Keras, Django, Pandas):**

Engineered dataset of users activity on the platform, initially EDA is performed followed by a sophisticated real-time Add Recommendation Engine. Major processes are Data Cleaning, Feature Extraction using PCA. Different Customer segments are created based on the similarity between various input features using Clustering. The trained Machine Learning Model will recommend relevant ads to relevant users.

Key Takeaway: Improved Accuracy with Less DataSet, Learned AWS Lambda for Fast Model Deployment with S3.

- Lead a team responsible for creating an automated real-time Exploratory Data Analysis Engine for Smaller Datasets.

- Worked with Project Managers to understand the requirements and formulate the given data problem.

- Led interactive sessions on the basics of AI/machine learning to all staff with a view to bridging the gap between technical and non-technical teams.

EDUCATION

JMIT, Kurukshetra University(Haryana)   Jul '12 - Aug '16
Bachelor of Technology (Computer Science)   Kuk,India
- CGPA: 7.1/10

ACHIEVEMENTS

- Shared Employee of the Month Award With 2 More Employees 2019

- Received Bronze Medal in InterState Chess Championship for College Team 2015

- Trained and Lead 3 Junior Data Scientists at Esferasoft Solutions 2020

- An integral member of Technical and Feature Development team for the Product Website www.webanalyzer.io 2020

ADDITIONAL INFORMATION
- **Languages**: English, Hindi & Punjabi