Pranjal Gupta

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EXPERIENCE

ARTIVATIC DATA LABS | ML NLP ENGINEER
September 2017 – Present | Bangalore, IN

- NLP Engine
  - Managed a team of 3 in developing/maintaining NLP Tools Engine, alongside designing the backend.
  - Implemented aspect level sentiment analysis using double propagation in python.
  - Extended sentiment classification with Character Level Classification, and revamped the accuracy from 49.8% to 66.7%.
  - Co-Developed Context Detection, using Stanford Glove Model and optimized loading time from 6 mins to 7 milliseconds.
- Financial Intelligence
  - Credit Scoring Module to quantify credit worthiness of an individual with 3rd party integration for aggregating transactional data.
  - Bank Statement Analysis from description to extract recommendation aspects.
  - Extended code to find outliers which was used for detecting abnormal transactions.
- Information Extraction
  - Developed a grammar based extraction technique using nested chunking of POS tags.
  - Automated the process with semi-supervised approach using dynamic programming paradigm.
  - Achieved an accuracy of 89% for policy number across 180 documents in insurance domain.
- Others
  - Developed denial prediction models for RCM cycle.
  - Handled concurrency by deploying application using wsgi server, optimized load balancing by reducing an average API latency to 52 miliseconds with 50 users.

KRYPTOBLOCKS | ARTIFICIAL INTELLIGENCE INTERN
June 2017 – August 2017 | Bangalore, IN

- Facial Emotion Recognition
  - Developed and implemented real time face detection with openCV.
  - Co-Developed emotion classification using DeepCNN with dataset provided by CMU.
- Attentiveness Detection
  - Implemented facial landmark detection using HOG and linear SVM in python.
  - Extended code to detect the state of a persons eyes, i.e. open or closed and count eye blinks.

EDUCATION

B.TECH.
ELECTRICAL & ELECTRONICS ENGINEERING
UNITED COLLEGE OF ENGINEERING AND RESEARCH
ALLAHABAD, IN | 2016

SKILLS

LANGUAGES

Python • Java • Scala
Matlab • AVR • LaTeX
C • HTML
Familiar:
JS

FRAMEWORKS

Play • Flask

LIBRARIES

Tensorflow • Keras • PyTorch
openCV • ntlk • gensim • Theano

DATABASE

Cassandra • Redis

OTHERS

Raspberry Pi • Arduino • Tabula

PROJECTS

LOAD FLOW OPTIMIZATION USING BACKPROPAGATION

Paper Presentation | IIT Roorkee

- Feasibility study for approximating steady state operating condtions of a power system, using NN design.
- Replaced costly matrix calculations on each network node, by analogus weights of a neural network.
- Ranked 2nd out of 20 team all over India.

AUTOMATIC IDENTIFICATION MODULE

Embedded | IIT Roorkee

- Developed an Automatic Challan System, using RFID EM18 interfaced with an Atmega32.
- System was able to identify a vehicle at two distinct known places and calculates its speed, which further extended to detecting Traffic light jumps.
- Presented a Paper in Innovision held at IIT Roorkee

ACHIEVEMENTS AND EXTRA CURRICULARS

Ranked 2nd	Tensor Optimization of Load Flow with Backpropagation, Paper Presentation, IIT Roorkee
Gold Medal	Rotary Science Festival' 10, Inter School Science Championship (Out of 27 Schools)
Paper Presentation	Automatic Identification Module, Innovision, IIT Roorkee
Organizing Team	RoboZires, Society of Robotics, UCER Ald.
Rhythm Guitarist	UnAuthorized Destiny, local band