

Abhinav Kumar Jha

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EDUCATION

JAMIA MILLIA ISLAMIA

B.TECH COMPUTER ENGINEERING

8.50 CGPA

July 2015 -- May 2019

MOTHER'S GLOBAL SCHOOL

CBSE, NEW DELHI

May 2014

10th : 9.0 CGPA

12th: 85.4

CONCEPTS

Computer Vision • Natural Language Processing • Deep Learning • Statistics • Time Series Analysis • Recommender System • Image Processing • Data Visualization

SKILLS

PROGRAMMING

Languages

Python • Java • C++ • C

Libraries

OpenCV • NLTK • Tensorflow • PyTorch

Web Development

• Django • Flask • Bootstrap • JavaScript

Version Control

• Git • Github • SVN

Others

• Docker • AWS • GCP • Azure Cloud Services

ACHIEVEMENTS

- 5 Star Gold Rating on Hackerrank
- Pat on the Back award at Newgen Software.
- Reached till Top 3 in onsite final round of Smart India Hackathon 2019
- AIR 137/80K in NEST SENIOR-II
- Ranked 33/3500+ participants in hackerearth ML challenge
- Ranked 13th/3000+ in Data Science Challenge by Skillenza

EXPERIENCE

NEWGEN SOFTWARE TECHNOLOGIES LTD. | SOFTWARE DESIGN ENGINEER

June 2019 - Present | Noida, India

- Designed and developed **Text Analyzer** product to extract Key value pairs, Named Entity recognition, Parts of Speech Recognition and also find Top Keywords, Summary, emotion, intent and sentiment of the incoming text.
- Developed interactive automated models training pipeline with data and model versioning and added auto-scaling feature in the **Document Classification** product.
- Worked on identification of Risky/Personal information from documents using named entity recognition. Custom LSTM based architecture is designed to get **more than 5 percent F1 score improvement** on state of art spacy and nltk.
- Improved the analytics module of **Digital Sensing** product by **12 percent** and added features like **channel and time recommendation**

THINK FUTURE TECHNOLOGIES | MACHINE LEARNING INTERN

Feb 2019 - April 2019 | Gurgaon, India

- Worked on **Intrusion Detection System** product and introduced Object Detection using YOLOV3, Human activity recognition in real time and integrated it with a web application made using flask.

PROJECT

DISTRACTED DRIVER DETECTION | DEVELOPER

Computer Vision | Deep Learning [Github](#)

- Developed stacked CNN architecture to predict the class of distraction in real time on a **video** and captured **image**.
- **Ranked in top 2 percent** in Distracted Driver Detection Challenge on Kaggle.

APNIDUKAAN | DEVELOPER

Django | JS | MongoDB | Celery | Recommender System [Github](#)

- An **Ecommerce website** having feature to browse products, add them to the cart, apply discount codes, go through the checkout process and obtain an invoice and receive email notifications asynchronously.
- The website can be rendered in **multiple languages** and has also a recommendation engine to **recommend products**.

FAKE NEWS STANCE DETECTION | DEVELOPER

NLP | LSTM | Fake News Detection [Github](#)

- Developed a **AI assisted fact checking pipeline** by Stance detection of the input text.
- Seq to Seq Recurrent model with attention using LSTM used to achieve **improved F1 Score by 4.1 percent** than existing solution of **FNC Challenge** by implementing Stanford stance detection research paper.

APPAREL RECOMMENDATION | DEVELOPER

Recommendation System | NLP | Deep Learning [Github](#)

- Recommends the similar apparel based on content based search filtering.
- Uses CNN architecture to recommend on the basis of apparel colors, various NLP algorithms on the basis of text based features like title, description etc.