Akash Chauhan

Data Scientist

Fueled by the passion for understanding the nuances of cognitive functions and Data science. 2 years of experience in data science roles. Highly competitive but a believer of collective growth. Have delivered in an extreme work environment, fourteen hours a day seven days a week at SWAN Labs, IIT Kharagpur. Currently working as a data scientist at SPi Global.

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WORK EXPERIENCE

Data Scientist
SPi Global

06/2019 - Present   *Chennai*

Achievements/Tasks with the NLP Team

- Created a suite for a legal use-case that included summarization and citation recognition using NER techniques. Further trained NER for multiple use-cases.
- Created one summarization platform(after market research and comparison of most existing models like PEGASUS, ProphetNet, T5 etc.) and a REST api for the same.
- Created models to index medical research articles/papers against concepts. (Multi-label classification model with 60k+ labels).
- Developed a reviewer selection tool that selects potential reviewers for an article submitted to be published.
- Combined results of object detection models with rules and patterns to extract data from PDFs.
- Extraction of ESG relevant data from unstructured PDF docs(Annual/CSR reports of companies) with a question answering approach.

Data Science Intern
Tata Consultancy Services

03/2019 - 05/2019   *Noida*

Life Sciences Division

- Planned and developed non-objective based market segmentation models for pharmaceutical market.
- Leveraged analytical skills to come up with interesting and necessary insights from health related data from various sources, converted to OMOP common data model.

Institutional Research Intern
SWAN Labs, IIT Kharagpur

05/2018 - 07/2018   *Kharagpur*

Under guidance of Prof. Sudip Misra

- Developed a novel learning framework for resource constrained IoT devices leveraging edge working with two of the finest research scholars of Prof. Misra.

Contact: Prof. Sudip Misra - smisra.editor@gmail.com

EDUCATION

Integrated M.Sc. in Computer Science with specialization in Artificial Intelligence
Central University of Rajasthan

07/2014 - 05/2019   *5.44/6*

SKILLS

`Python` `NLP` `Deep Learning` `EDA`
`Data Mining` `Docker` `Flask`

ACHIEVEMENTS

Gold medalist, Integrated M.Sc CS(AI)(2014-2019).

BLOGS AND PERSONAL PROJECTS

Generating abstractive summaries using Google Brain's PEGASUS (06/2020 - 06/2020) ⤴

- Since the feature to generated summary for a single piece of text was missing, this article shows a neat work-around to generate summaries using the available pre-trained model.

Training a custom NER model using Flair (06/2020 - 06/2020)

- A tutorial on how to create an NER model for custom entities. Right from data preparation to model evaluation.

Personalized Cancer Detection (02/2019 - 02/2019) ⤴

- Leveraging the NLP techniques, build models to successfully predict the class of cancer, given the 'Gene', 'Variation' and the corresponding text in the literature.

Stack Overflow tag predictor (01/2019 - 02/2019) ⤴

- Given the title and body of the question on stack overflow, predicting the possible tag(s).

Quora question pair similarity (12/2018 - 01/2019) ⤴

- It makes sense of quora to combine two questions if they somehow are asking the same thing. This project automates this process.

CERTIFICATES

Microsoft AI Challenge India 2018 ⤴

Machine Learning [GIAN]

Big data analysis and mining in deep web repositories [GIAN]

Core Java, HPE Summer Training Nodal Center[Hewlett Packard Enterprise]