

Akash Pujari

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WORK

Research Associate / Oct 2020 - Mar 2021

Indian Institute of Technology (IIT), Chennai, India

My research aimed at neutralizing bias in web pages through a browser extension using a BERT model.

Python BERT TensorFlow PyTorch NLP
Deep Learning

Research Intern / May 2019 - June 2019

Indian Institute of Technology (IIT), Chennai, India

Loaded a dataset into Hadoop and queried it using HIVE and Used H2O flow to perform auto-ml to select the best model for a dataset. Trained a model to predict the amount spent on hotels per day by clients based on different parameters.

Python Hadoop HIVE Auto-ML Machine Learning
Data Visualization PostgreSQL

Intern / May 2018 - June 2018

PayPal, Chennai, India

Made a web app for the cafeteria using PHP and integrated login and payment with PayPal features using API's.

HTML CSS PHP PayPal API Prestashop
Magento

Intern / Nov 2017 - Dec 2017

Blackboard, Chennai, India

Used Java to design educational games and Tested a program and corrected errors by making appropriate changes and rechecking the program to ensure that the desired results were produced..

Java Testing

SKILLS

Languages: Python, C++, SQL, PostgreSQL, Java, HTML, CSS, PHP

AI: Machine Learning, Deep Learning, Natural Language Processing

Tools: PyTorch, TensorFlow

PROJECTS

- **Toxicity Analyzer on Social Media** - Trained a BERT model to detect toxic comments and created a web application which fetches all of a given user's tweets and highlights the toxic tweets made by that user.
- **Machine Learning Use Cases with Data Libre** - Trained a model to predict the amount spent on hotels per day by clients based on different parameters.
- **Dynamic Reporting Framework** - Dynamically embedding Power BI and Tableau reports on webpage using nodeJS, with Caterpillar Inc.
- **Management of patient records and analysis** - A website was created using HTML and CSS, and NodeJS was used to implement the back end. Possible diseases were predicted by analysis of symptoms using machine learning models.
- **Smart Street Lighting System** - Arduino powered street lighting system with motion detection.

Publications

- **Empirical Test Design Strategies Using NLP** - My research demonstrated the efficacy of Google's Universal Sentence Encoder to measure the similarity between submitted issues and classification of these issues based on severity using a chatbot (RASA). [Link](#)
- **Extracting Protests from News using LSTM Models** - My research showed that among the different attention mechanisms, models that adopted 2 Layered, bi-directional LSTM with Bahdanau Attention produced the best results. [Link](#)

Education

Virginia Tech University, USA

Master's in Computer Science (July 2021 - Present)

GPA: 3.85 / 4.0

SSN College of Engineering (Anna University), India

Bachelor's in Computer Science (June 2016 - April 2020)

GPA: 8.08 / 10.0

AWARDS AND HONORS

- President of the Mathematics Club of the college.
- First place in the state-level inter-college Mathematics quiz. (January 2019)
- Finalist at national-level Smart India Hackathon, 2018 organized by the Government of India. (March 2018)
- First place in Arduino Competition held in college (July 2017).