Gaurav

DEEP LEARNING PRACTITIONER · SOFTWARE ENGINEER · RESEARCHER · ENTREPRENEUR · MOTIVATIONAL SPEAKER

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Open Source contributions

Natural Language Toolkit for Indic Languages - iNLTK
goru001/inltk

DEEP LEARNING LIBRARY FOR DEVELOPERS   *Oct 2018 - PRESENT*

- iNLTK aims to provide out of the box support for various NLP tasks that an application developer might need for Indic languages
- Contains pretrained ULMFiT Language Models for 11 Indic Languages
- This library has 300+ stars on GitHub and was also shared by Jeremy Howard on Twitter and lots of people on LinkedIn

Code With AI
goru001/code-with-ai

DEEP LEARNING TOOL FOR COMPETITIVE PROGRAMMERS   *Dec 2018 - Jan 2019*

- Model which predicts which techniques one should use to solve a competitive programming problem to get correct answer
- The classifier is built starting from Wikitext103 Language Model pretrained weights, fine-tuning the language model on current data set and then building classifier on top of fine-tuned language model
- This tool has 120+ stars on GitHub and was also shared by Jeremy Howard on Twitter

NLP for Sanskrit
goru001/nlp-for-sanskrit

FIRST EVER SOTA TOKENIZER, LANGUAGE MODEL AND CLASSIFIER IN SANSKRIT   *Oct 2018 - Jan 2019*

- Dataset: Scraped and Cleaned, 22k Sanskrit Wikipedia articles for Language Model, and Shlokas from sanskrit websites for classifier
- Used ULMFiT to train Language Model, built Shloka Classifier on top of pretrained Language Model using Transfer Learning
- Similar repositories for 9 other Indic languages, whose models have been used in iNLTK

Personal Emotional Doctor - Chat Bot
goru001/PersonalEmotionalDoctor

RESEARCH PROJECT TO TACKLE DEPRESSION   *2018 - PRESENT*

- Building a Chat Bot which gives personalized counselling without being emotionally biased and judgemental
- Collected data set by performing OCR over each page of book "Happiness Unlimited"
- Implemented encoder-decoder model using AWD-LSTM, with "attention over questions" + "attention over knowledge base" + "feedback of previous output"
- Got Young Research Fellowship Award for this project

Industry Experience

Goldman Sachs
Bengaluru

ANALYST   *Jun. 2018 - Present*

- Working with the UX and Productivity team on Desktop Assistant, which is a productivity tool used by every employee in the firm to perform activities like Call, IM, Email etc
- Developed the analytics service for Desktop Assistant from scratch with features like Deduplication (to handle duplicate events and reduce load on analytics server), batching and throttling, pumping data to Elasticsearch and visualizing on Kibana
- My work at GS brought to the fore key metrics about Product Health, User Behavior which were missing earlier

Goldman Sachs
Bengaluru

INTERN   *Jan. 2017 - June 2017*

- Worked with the team that built and maintains the firm's standard UI Development Framework - the UI Toolkit
- Goal: Accelerate application development by providing a set of reusable patterns and components
- Implemented 4 commonly used layout patterns in AngularJS, made GS's IntroJS component in ReactJS & Angular4

Researchshala
www.researchshala.com

CO-FOUNDER · CTO · FULL STACK DEVELOPER   *Nov. 2016 - Mar. 2018*

- Researchshala is an online platform to connect professors to research-interns, helping them with their research projects
- Single handedly implemented the complete web-app using Django and was System-Administrator of Researchshala on AWS
- Researchshala got more than 40 research projects, having 90+ students working under professors from universities like Carnegie Mellon University, IITs etc. during that time

Honors & Awards

CODING

Dec.2018	**Top-17% , Human Protein Atlas Image Classification, Kaggle**, for developing Deep Learning model which classified mixed patterns of proteins in microscope images. The competition had 2172 teams, but I participated individually and hence had 100% contribution in the 366th placed solution	*Worldwide*
Oct.2017	**1st Prize,IEEE-Hackathon**, for developing chat-bot to help people with emotional decisions in life	*PEC*
Feb.2016	**Top-100**, among 500,000 students in IT-Olympiad,2016.	*India*
Oct.2016	**2nd-Prize, IEEE-Hackathon**, for developing an Augmented reality application to help teachers	*PEC*
Mar.2016	**All India Rank-6**, in IEEE Programming League, among over 1200 undergraduate students.	*India*
Mar.2016	**2nd Rank**, CodeWars,a competitive-programming event hosted by IEEE,PEC on CodeChef	*PEC*

ACADEMIC

Nov.2016	**Research Scholarship**, for Personal Emotional Doctor - Bot	*PEC*
2014	**All India Rank-885**, JEE-Mains, among 1.4 million candidates	*India*
2014	**1st Rank-Opener,PEC**, for **best** JEE-Mains rank among 600 students of the session 2014-2018.	*PEC*
2014	**1 Lakh Scholarship**, from CBSE for 96.4% marks in 12th Boards and 10 CGPA in 10th.	*India*
2014	**Letter of Appreciation**, from HRD Ministry,Govt. of India for 96.4% in CBSE-12th exams	*India*
2011	**Catch Them Young**, Was among the **top-40** students selected from tricity by INFOSYS for 2-week Programming-Basics training on their campus	*INFOSYS*

Education

International Institute of Information Technology (IIIT - Hyderabad)   *Bengaluru, India*
ADVANCED CERTIFICATION IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING   *Oct. 2018 - Mar. 2019*
- Performance: Very Good

PEC University of Technology   *Chandigarh, India*
BACHELOR OF TECHNOLOGY (B.TECH.), COMPUTER SCIENCE AND ENGINEERING   *2014-2018*
- Best JEE-Mains Rank in class
- CGPA : 7.77/10

GMSSS-16   *Chandigarh, India*
INTERMEDIATE   *2014*
- 12th standard : 96.4%
- 10th standard(CGPA) : 10/10

Skills & Courses

Mathematics	Discrete Structures for Computer Science, Vector Calculus, Fourier Series and Laplace Transform, Operation Research, Mathematics for Machine Learning: Linear Algebra and Multivariate Calculus (Coursera)
Computer Science	Data Structures and Algorithms, Computer Architecture and Organization, OOP, Microprocessor, DBMS, Operating Systems, Computer Networks, Theory of Computation, Artificial Intelligence, Computer Graphics, Mobile Computing
Others	Oscillations & Optics, Digital electronics and Logic Design, ElectroMagnetic Theory, Basics of Electrical Sciences
Deep Learning	Fastai: Part 1 and Part 2, DeepLearning.ai by Andrew Ng, Deep Learning by Prof. Mitesh Khapra, IIT Madras
Programming & Web	C, C++, Python, Javascript, TypeScript, EcmaScript6, AngularJS, ReactJS, Angular4, Webpack, Django with Python
Machine Learning tools	Pytorch, Pandas, Numpy, ScikitLearn, Fastai, Allennlp

Extracurricular Activity

MOTIVATIONAL-SPEAKER   *2014 - PRESENT*
- Given more than 10 motivational lectures at schools, college etc to an audience of about 100, talking about *student-life challenges* and *success-hacks*.