AMRATANSHU SHRIVASTAVA

Looking to work on projects in Data Science

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📍 Mumbai, India

EXPERIENCE

Bosch Research and Technology Centre
NLP Research Intern
📅 09/2020 - 12/2020   📍 Bangalore, india

Text Analytics Research Wing, Bosch

- Worked under Mr. Rao Rajesh N (Head, Text Analytics) on Semantic Cleansing
- Optimised the current Semantic Cleansing process by revamping the Word2Vec algorithm
- Co-proposed a variant of Word2Vec CBOW Algorithm by infusing custom anchor terms (triggers) as context words during the calculation of word vectors
- Built the **custom Word2Vec system** from scratch in **TensorFlow** with Hierarchical Softmax and Negative Sampling (modifications from the original Word2Vec code in C, by Mikolov et al.)

ServiceNow IDC, Hyderabad
Software Development Intern
📅 05/2020 - 06/2020   📍 Hyderabad, India
🔗 https://blogs.servicenow.com/2020/interns-launch-new-app-from-home.html

Platform Engineering - IntegrationHub

- Developed Social Media Analytics tools for Instagram and Youtube aimed at SMBs
- Automated several tasks for SMBs using ServiceNow platform to expand and track their businesses using Facebook Graph API and Youtube API
- The final product is expected to roll out on the Citizen Developer Studio by late 2020
- Offered FTE (Full Time Employee) role at IDC, Hyderabad
- **RhinoJS, Instagram/Facebook Graph API, Youtube API, ServiceNow**

PGS Energy Services
Energy Auditor/Software Development intern
📅 05/2019 - 07/2019   📍 Ahmedabad, India

Automator tool

- Made a web app to automate the process of report making for Energy Audit firms from scratch
- Automated filling of tables in a word file on the basis of certain triggers from hugely populated Excel sheets
- **Google Docs/Sheets API, Python, HTML, CSS, ReactJS**

Teaching Assistant, Principles of Economics
ECON F211 - PoE
📅 01/2020 - 05/2020   📍 BITS Pilani

Undergraduate Teaching Assistant

- TA for the introductory course on Micro/Macro-Economics at BITS Pilani
- Assisted a batch of over 900 sophomores under Prof. Rajan Pandey

PROJECTS

Search Engine using Vector Space IR Model
📍 BITS Pilani
🔗 https://github.com/amratanshu/Ranked-Retrieval-using-Vector-Space-Model

- Document Search Engine - Ranked based Retrieval using Vector Space Model
- Preprocessing - stemming, lemmatisation
- lnc.ltc scoring scheme / Python
- Modelled using various restriction techniques and compared the results

Review Paper
📍 BITS Pilani
🔗 https://github.com/amratanshu/RESUME

Information Retrieval - CS F469

- Wrote a review of the paper "Compositional Vector Space Models for Improved Bug Localization" (2014 IEEE International Conference on Software Maintenance and Evolution)
- Mentioned the limitations of the paper and gave suggestions for improvement

File uploader using Socket Programming
📍 BITS Pilani
🔗 https://github.com/amratanshu/Multi-Channel-Sto

- Implemented multi-channel-stop-and-wait protocol to upload a File (ordered TCP Packets) from Client to Server
- Used **C** library functions like select() to choose b/w multiple channels
- Experimented with different packet drop rates and ensured the packets are delivered in order irrespective of it

EDUCATION

BITS Pilani, Pilani Campus
B.E Computer Science
📅 2017 - 2021

GPA
7.54 / 10

Delhi Public School
Ahmedabad, Gujarat
📅 2015 - 2017
- CBSE - Class XII Board PCM with Computer Sci.)

%
95.6 / 100

S R International School
Bareilly, UP
📅 2015

GPA
10 / 10

AWARDS AND ACHIEVEMENTS

💎 **Microsoft CodeFunDo++, 2019**
* Final Round participant (Team of 3)
* Created a Decentralized Voting system using blockchain
* Issuance of digital Voter ID using uPort   app Signatures
* Implemented 2 Factor Authentication
* Deployed the backend and frontend on Azure Blockchain
* Used solidity to write smart contracts for transactions

PROJECTS

Compiler in C
📍 BITS Pilani
🔗 https://github.com/amratanshu/Toy-Compiler
- Built a compiler from scratch in **C** for a custom language (set of syntax grammar rules)
- Phase 1 - Lexer and Parser
- Phase 2 - Abstract Syntax Tree Generator
- Phase 3 - Semantic Analyser and Type Checker
- Phase 4 - Final conversion to Machine Code Assembly Language)

Spirit Level Tester using Assembly Language
📍 BITS Pilani
- Built a system used for testing the sobriety of a person
- The user has to re-enter the flashing numbers on the hex display correctly under the given time slot
- After 3 failed attempts, a buzzer goes off
- Simulated in Proteus, coded the components in **Assembly Language**

POSITIONS OF RESPONSIBILTY

✉ **Marketing Associate at TEDxBITS Pilani**
Co-led a team of 6 members in the Sponsorship Team and brought in cash/in-kind sponsorship from brands like Harvard Business Review HBR, Yes Bank, Brew House, Bisleri and Ixigo etc.

📷 **Photography Club, BITS Pilani**
Senior Member