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Shefali Tripathi

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EDUCATION

BITS PILANI, PILANI
BE in Computer Science
June 2021 | Pilani, Rajasthan
Cum. GPA: 7.92 / 10

AHLCON PUBLIC SCHOOL
Grad. May 2017| Delhi, India

LINKS

Github:// **sheftrip**
LinkedIn:// **shefali-tripathi**

COURSEWORK

UNDERGRADUATE
Neural Network and Fuzzy Logic
Information Retrieval
Image Processing
Pattern Recognition
Database Management Systems
Data Structures and Algorithms
Operating Systems
Computer Networks
Object-Oriented Programming

SKILLS

PROGRAMMING
Over 5000 lines:
C++ •C • Python • Java
Over 1000 lines:
MSSQL • Matlab • Assembly
Familiar:
JavaScript• CSS • HTML • Prolog • MongoDB

EXTRA-CURRICULARS

WALL STREET CLUB
August 2017 - Present | Member

HINDI ACTIVITIES SOCIETY
August 2017 - Present | Member
August 2019 - September 2019 | Co-ordinator

EXPERIENCE

DEMANDMATRIX INC | SDE Intern
August 2020 - December 2020 | Remote

- Developed a tool to crawl and scrape **2000+** business websites to identify network requests sent to service providers to get insights for the B2B technology demand platform
- Used **MongoDB**, a **NOSQL** database, to maintain and curate data from scraped websites and the regular expressions associated with them
- **Tech:** Python, MongoDB

L&T MHPS BOILERS PVT. LTD. | IT Intern
June 2019 - July 2019 | Faridabad

- Built an automated routine mailing program to send customised mails to **1500+** employees of the company which were earlier sent by the HR Department manually
- Designed a dashboard for displaying live data collected from the Boiler plant to assist in better visualisation and analysis of the data
- **Tech:** VBA, Python, JavaScript, MongoDB

PROJECTS

CHARACTER-LEVEL CONVOLUTIONAL NETWORKS FOR TEXT CLASSIFICATION
April 2020 - May 2020 | Python | **GitHub Repo**

- Created a text classifier with **PyTorch** using a Character-level Convolutional Network on AG News Dataset to achieve an accuracy of **89%**
- Implemented Word-Based Convolutional Neural Network as a baseline to compare the efficiency of the Character-level CNN

DUTCH-ENGLISH TRANSLATOR
October 2019 - November 2019 | Python | **GitHub Repo**

- Developed a Cross Lingual Document Translator based on **IBM Model 1** for alignment and translation
- Used cosine similarity and Pearson's correlation coefficient to judge the accuracy of the model
- Trained the model on **1 lakh+** Dutch-English sentence pairs and achieved a cosine similarity of **0.9**

ERPLAG: TOY-COMPILER
January 2020 - April 2020 | C Programming | **GitHub Repo**

- Built a Compiler for a Toy-Programming language ERPLAG
- Implemented and applied n-ary Tree, HashMap and Stack in various modules of the compiler such as Lexer, Parser and Semantic Analyser
- The compiler compiles source code to **NASM** code for execution