

Shefali Tripathi

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sheftrip.github.io
shefalitripathi4@gmail.com | +91-9119225442 | f20170139@pilani.bits-pilani.ac.in

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.
- Built 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](#)

- Trained 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.

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.

FILE TRANSFER USING SELECTION REPEAT PROTOCOL

March 2020 | C Programming

- Implemented transfer of files from client to server via intermediate relays employing SR protocol.
- Created two different versions for TCP and UDP.