

Amratanshu Shrivastava

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EDUCATION

BITS PILANI

B.E. (HONS.) IN COMPUTER SCIENCE

Jul 2021 | Pilani, Rajasthan

GPA: 7.54/10.00 (after 7 semesters)

CLASS XII | HIGH SCHOOL

DELHI PUBLIC SCHOOL

CBSE Board | Ahmedabad, India

95.6% - in top 0.1% of candidates

LINKS

Github:// @amratanshu

LinkedIn:// @amratanshu

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms

Object Oriented Programming

Operating Systems

Computer Networks

Database Systems

Compiler Construction

Information Retrieval

Image Processing

Principles of Economics

(Teaching Assistant for over 900 sophomores)

SKILLS

C • C++ • Python • Javascript

Tensorflow • Keras

NodeJS • ReactJS

Familiar:

Java • Assembly • Prolog

MongoDB • GraphQL

ACHIEVEMENTS

Final round - Microsoft CodeFunDo 2019

All India Rank 5530 - JEE Advance 2017

All India Rank 5365 - JEE Main 2017

(more than 10,00,000 candidates)

BITSAT 2017 - 388/450

CO-CURRICULAR

Member - Photography Club

Marketing Associate - TEDx BITSPilani

EXPERIENCE

ROBERT BOSCH RESEARCH AND TECHNOLOGY CENTRE (RBEI)

| NLP RESEARCH INTERN

Sept 2020 - Present | Bangalore, India

- Worked under Mr. Rao Rajesh N, head of Text Analytics Group, RBEI on Semantic Cleansing
- Optimising the current Semantic Cleansing technique by reducing the number of Word2Vec training runs required for eliminating irrelevant sentences
- Developing a novel Word2vec algorithm where certain anchor terms can be infused within the context window during the calculation of word vectors to mark relevant sentences
- Observing results on a web-complaint database in the automobile domain by NHTSA
- Tech Stack - Python, Tensorflow, Keras

SERVICENOW IDC | PLATFORM ENGINEERING INTERN

May 2020 - June 2020 | Hyderabad, India

- Developed Social Media Analytics tools for Instagram and Youtube aimed at SMBs
- Made several workflows to automate tasks on the ServiceNow Platform using Facebook Graph/Youtube APIs
- Offered FTE (Full Time Employee) role based on performance
- Work featured on ServiceNow [Blog://interns-launch-new-app-from-home](#)
- Tech Stack - Javascript (RhinoJS Engine, REST APIs)

PROJECTS

FILE TRANSFER SYSTEM | COMPUTER NETWORKS - CS F303

- Built a file transfer system to upload a file from client to server
- Incorporated Multi-Channel Stop-and-Wait protocol
- Experimented with different packet drop rates at Receiver side while ensuring that packets are delivered in order
- Tech Stack - C, Socket Programming | [Github://file-uploader](#)

VECTOR-SPACE IR SYSTEM | INFORMATION RETRIEVAL - CS F469

- Built a Ranked Retrieval system based on cosine scores between documents and search queries
- Two improvements were implemented - considering only high idf terms and rigorous multiple-word query checking
- Tech Stack - Python, NLTK | [Github://Vector-Space-Model](#)

REVIEW PAPER | 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)
- [Github://review-paper](#)

CUSTOM COMPILER | COMPILER CONSTRUCTION - CS F363

- Built a compiler for a custom language (ERPLAG) consisting of lexer, parser, AST Generator, Semantic Analyzer and Type Checker.
- Tech Stack - C | [Github://toy-compiler](#)