Amratanshu Shrivastava

f20170224@pilani.bits-pilani.ac.in | amratanshu99@gmail.com | +91-8475943370

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
- Working 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**