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Syed Ahsan Abbas

Computer Science & Economics at BITS Pilani

EDUCATION

BITS PILANI
B.E Computer Science
MSc. Economics
GPA: 9.16/10 | 2017-2022

DELHI PUBLIC SCHOOL, NOIDA
Class XII : 93% | 2017

TECHNICAL SKILLS

C++ | PYTHON | C | PYTORCH | SQL | JAVA | JAVASCRIPT

ACHIEVEMENTS

INSTITUTE MERIT SCHOLAR
Awarded for being in Top 3% of the institute in semesters 4 & 5

KVPY FELLOW
Secured AIR 344 out of more than 50,000 students in the exam

FUTURE RESEARCH TALENT AWARD
One of the 60 students to receive a $6000 scholarship from Australian National University

COURSEWORK

Object Oriented Programming
Data Structures & Algorithms
Operating Systems
Computer Architecture
Information Retrieval
Database Systems
Discrete Structure for CS
Computer Programming
Logic in Computer Science

INTERNSHIPS

Fall Intern — Jul '20 - Aug '20

NLP QA Models | University of Manchester — Remote

- Generated question-answer data from clinical notes with temporal annotations and used models from HuggingFace library to test reasoning performance
- Used Union-Find to establish and store time-links between events in clinical notes

Summer Intern — May '19 - Jul '19

Python Package | Institute of Genomics — New Delhi

- Published a python package which calculates an entropy based distance metric between individuals given their categorical data without loss of information in ordinal variables
- Designed appropriate abstractions for modularity and wrote the main distance function which uses memoization for faster performance

PROJECTS

DUMMY COMPILER

Oct 2020

Devised a grammar and implemented a basic tokeniser, lexer, parser and type error identifier for the given language (coursework). The complete code was written in C.

GitHub://ahsanabbas123/dummy-compiler

CONTENT BOOSTED RECOMMENDATION SYSTEM

Nov 2020

Created a content based collaborative filtering model in Python for the MovieLens dataset, leveraging metadata such as genre and co-ratings associated with the movies to generate accurate user neighborhoods for prediction.

GitHub://ahsanabbas123/Recommender-System

TRANSFORMER FOR MACHINE TRANSLATION

Apr 2020

Implemented the multi-head self attention and stacked encoder-decoder architecture using PyTorch to replicate Google's transformer model. Achieved a Bleu score of 35.4 on the Multi-30k dataset, comparable to the state of the art.

GitHub://ahsanabbas123/Transformer

POSITIONS OF RESPONSIBILITY

Wall Street Club

Senior Member & Recruitments

Helped manage a domestic private investment portfolio through fundamental analysis for India's first collegiate investment club. Conducted sessions on various trading strategies.