Fauzan Farooqui

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EDUCATION

VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY Nagpur, India | 2019 - Present
B.Tech, Computer Science & Engineering

GRADE 12 - CBSE BOARD Sharjah, UAE | 2019
Average Percentage: 91.6%

GRADE 10 - CBSE BOARD Sharjah, UAE | 2017
CGPA: 10/10 (equivalent to a 100%)

SELECTED COURSEWORK

- IIIT-H's Advanced NLP Summer School (on-site)
- The NLP course by Stanford University [Notes]
- NVIDIA DLI Workshop on Building Transformer-Based NLP Applications
- Courses 1 , 2 and 4 of the Deep Learning Specialization by DeepLearning.AI on Coursera
- Computer Vision • Artificial Intelligence
- Information Retrieval • Data Mining
- Data Structures • Algorithms
- Object-Oriented Programming • Compilers
- Neuro-Fuzzy Techniques • Linear Algebra
- Probability & Statistics • Queuing Theory
- IBM QGSS 2020 and 2021
- Entrepreneurship • Business Intelligence

SKILLS

PROGRAMMING LANGUAGES
Python, C++, C. *Basic:* Java, JavaScript

PYTHON ML LIBRARIES
PyTorch, HuggingFace, Scikit-learn, NumPy, Pandas

SOFTWARE / TOOLS
SQL, MongoDB, LaTeX, Git, MS Office

NATURAL LANGUAGES
English, Urdu, Hindi, French. *Basic:* Arabic, Telugu

SOFT SKILLS
Strong analytical thinking, leadership, collaborative team-building, and academic writing skills

EXTRACURRICULARS

- Student Volunteer at the on-site EMNLP-2022 Conference in Abu Dhabi, UAE
- Core Member and NLP Mentor at IvLabs , the AI and Robotics Lab of VNIT
- IEEE VNIT Student Branch Coordinator - Taught and organized various workshops.
- Editor at Mag.Com, the Literary Club of VNIT
- Best Prefect Award, 2016-2017 – Recognition by school for a distinguished leadership role.

RESEARCH WORK

OPEN INFORMATION EXTRACTION
IvLabs, VNIT, India | Aug 2022 - Present
- Aimed at using improved embedding techniques to effectively extract structured triples from natural language sentences.
- Working towards a publication to share results.

EXPERIENCE

SUMMER RESEARCH INTERN [GitHub]
IvLabs, VNIT, India | Jul - Aug 2020
- Aimed to recognize the speaker in an audio file, from a database of various speakers' voices.
- Implemented basic signal processing and classification algorithms, such as LPC and MFCC.

SOFTWARE ENGINEERING INTERN [Testimonial]
Esri R&D Center, Sharjah, UAE | Jul 2017
- Analyzed sample data through maps, using Esri's ArcGIS software.
- Exposure to software engineering processes and spatial thinking.

PROJECTS

STATISTICAL MACHINE TRANSLATION [Presentation]
IIIT-H's IASNLP Summer School Project, India | Jun 2022
- Investigated the effects of tuning English to Hindi, Telugu, Tamil SMT models on different evaluation metrics (BLEU, chrF, TER, etc).

NEURAL MACHINE TRANSLATION [GitHub]
IvLabs, VNIT, India | Dec 2021
- Implemented novel architectures, like Transformers and Seq2Seq, in PyTorch using the Multi30k Dataset for German-English.

SENTIMENT ANALYSIS [GitHub]
IvLabs, VNIT, India | Jan 2022
- Benchmarked the LSTM, FastText and BERT text classification architectures in PyTorch on the IMDb Movie Reviews dataset.

TEXT GENERATION [GitHub]
IvLabs, VNIT, India | Jun 2021
- Generated dinosaur names by building a character language model.
- Compared the results of different sequence models in PyTorch.

TRAVELING SALESMAN PROBLEM SOLVER [GitHub]
Artificial Intelligence Course Project, VNIT, India | Oct 2022
- Implemented the A* search algorithm to solve the TSP, using the minimum spanning tree heuristic function.

HEAP MEMORY MANAGER [GitHub]
Concepts in Programming Languages Course Project | Feb 2021
- Implemented the malloc and free functions in C, on a heap, using the first-fit allocation strategy.

LINUX COMMAND SHELL [GitHub]
Operating Systems Course Project, VNIT, India | Sep 2021
- Developed a basic Linux shell using multithreading in C POSIX.

WEATHER TRACKING NETWORK [GitHub]
Data Structures Course Project, VNIT, India | Apr 2021
- Implemented AVL Binary Search Trees in C for data structures and operations designed to manage weather and sensor network data.