

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 • OOP
- Compilers • Calculus • Linear Algebra
- Probability • Statistics & Queuing Theory
- IBM QGSS [2020](#) and [2021](#)
- *Ongoing*: Advanced Computer Architecture; Graph Theory; Parallel Computing; Economics

SKILLS

PROGRAMMING LANGUAGES

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

PYTHON ML LIBRARIES

PyTorch, HuggingFace, Scikit-learn, NumPy, Pandas

SOFTWARE / TOOLS

SQL, MongoDB, LaTeX, Bash / Linux, Git, OpenMP

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 [lvLabs](#), VNIT's AI and Robotics Lab - Taught at workshops too
- Best Position Paper Award at VNIT's MUN 2023
- IEEE VNIT Student Branch Coordinator
- Editor at Mag.Com, the Literary Club of VNIT
- Best Prefect Award, 2016-2017 - Recognition by school for a distinguished leadership role

EXPERIENCE

RESEARCH INTERN

VNIT, India | Jul - Dec 2022

- Aimed at using improved embedding techniques to effectively perform the open information extraction task of generating structured triples from natural language sentences.
- Submitted a paper at a prestigious academic venue (under review).

SUMMER RESEARCH INTERN

[\[GitHub\]](#)

lvLabs, 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

LINK PREDICTION IN OPEN KNOWLEDGE GRAPHS

Graph Theory Course Project, VNIT | Apr 2023 (Ongoing)

- Aiming to improve reasoning over OKGs by introducing Graph Neural Networks in PyG to learn entity-mention node features.

STATISTICAL MACHINE TRANSLATION

[\[Presentation\]](#)

IIIT-H's IASNLP Summer School Project | 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

[\[GitHub\]](#)

lvLabs, VNIT | Dec 2021

- Implemented novel architectures, like Transformers and RNNs, in PyTorch using the Multi30k Dataset for German-English.

SENTIMENT ANALYSIS

[\[GitHub\]](#)

lvLabs, VNIT | Jan 2022

- Benchmarked the LSTM, FastText and BERT text classification architectures in PyTorch on the IMDb Movie Reviews dataset.

TRAVELING SALESMAN PROBLEM SOLVER

[\[GitHub\]](#)

Artificial Intelligence Course Project, VNIT | 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 | Sep 2021

- Developed a basic Linux shell using multithreading in C POSIX.
- Handles multiple serial / parallel commands and signal interrupts.

WEATHER TRACKING NETWORK

[\[GitHub\]](#)

Data Structures Course Project, VNIT | Apr 2021

- Implemented AVL Binary Search Trees in C for data structures and operations designed to manage weather and sensor network data.