

# 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 IASNLP '22 Summer School](#) (in-person)
- Courses [1](#), [2](#) and [4](#) of the Deep Learning Specialization by DeepLearning.AI on Coursera
- The [NLP course](#) by Stanford University [\[Notes\]](#)
- [NVIDIA DLI Workshop](#) on Building Transformer-Based NLP Applications
- Computer Vision
- Artificial Intelligence
- Neuro-Fuzzy Techniques
- Information Retrieval; Data Mining
- Probability; Statistics and Queuing Theory
- Linear Algebra
- [IBM QGSS 2020](#) and [2021](#)
- Entrepreneurship; Business Intelligence

## SKILLS

### PROGRAMMING LANGUAGES

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

### SOFTWARES

SQL, MongoDB, Git, LaTeX, Markdown, MS Office

### PYTHON ML LIBRARIES

TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas

### NATURAL LANGUAGES

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

### SOFT SKILLS

Strong analytical thinking, leadership, 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, [IvLabs](#) (AI and Robotics Club of VNIT)
- IEEE VNIT Student Branch Coordinator - Taught and organized various workshops.
- Editor, Mag.Com (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 perform the task of extracting structured triples from natural language text.
- 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 SOTA 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 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 multi-threading in C.
- Built to handle multiple serial/parallel commands, output redirection, and signal interrupts.