

Karthik Puranik

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EDUCATION

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY TIRUCHIRAPPALLI

B.Tech (CSE) | 2018-22 | CGPA: 8.3

DCFL PU COLLEGE

Bengaluru, Karnataka
PCMCs | Passed 2018 | 91.33%

SDM CENTRAL SCHOOL

Dharwad, Karnataka
Schooling (CBSE) | Passed 2016 |
CGPA: 10

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SKILLS

TECHNICAL SKILLS

Programming

• Python • C • LaTeX

Database system

• MySQL

Analysis

• Pandas • MS Excel

Visualisations

• Matplotlib • Seaborn • Power BI

Statistical

• Regression • Machine Learning •
Probability

Developer tools

• Anaconda distributions • Google Colab
• Pycharm • VS Code • GitHub • Gitlab

COURSES

CORE COURSES

Database Management System

Data Structures and Algorithms

Operating Systems

Software Engineering

Machine Learning

Data Warehousing and Data Mining

Probability

Mathematics

Queuing and Statistics

CERTIFICATIONS

• Python For Everybody Specialization,
University of Michigan

• Neural Networks and Deep Learning,
deeplearning.ai

• Applied Data Science with Python
Specialization, University of Michigan

• Tensorflow in Practice Specialization,
deeplearning.ai

WORK EXPERIENCE

CRIMSON INTERACTIVE (ENAGO)

ML Engineer Intern | May 2021 – June 2021

- Worked on **Machine Translation** for Indian languages to produce exceptional BLEU scores.
- Trained **fairseq** models on the Samanantar dataset after removing noise, and also worked with the **SimAlign** tool to produce word alignments for translation.
- Worked on various multilingual pre-trained models for the same task and analyzed the scores.

INDIAN INSTITUTE OF TECHNOLOGY BHU(VARNASI)

Research Intern | Dec 2020 – current

- Research and development of **Topological Relations between Spatial Objects** under Dr. Sukhada.
- Tried to improve the translations produced by **Language Communicator**, a translation tool by IIT BHU, using masked language models (MLM) in transformers like **BERT** and **t5**.
- Worked on a research paper in **Spatial topological relations in Hindi** by analyzing responses from various native and non-native speakers.

INDIAN INSTITUTE OF MANAGEMENT INDORE

Research Content Writer Intern | Jan – Feb 2021 | May - June 2021

- Research and writing case studies on an upcoming company in the telemedicine industry under Dr. Saurabh Kumar.
- Analyzing and formulating ideas for an IoT based company to recover from the losses incurred due to COVID-19 and recording the same.

THE SPARKS FOUNDATION

Data Science and Business Analytics Intern | Dec 2020 – Jan 2021

- Worked on various **supervised and unsupervised Machine Learning algorithms** to solve real-time problems and analyzing the results.

GOALS101

Technical Writer | June 2020 – Aug 2020

- Worked as a technical writer in this AI-based Transaction Behavioral Intelligence (TBI) company that provides solutions to the banking industry.
- Introduced to **Big Data** and the real-time use of **ML and AI in the industry**.

PUBLICATIONS

- **There is always Hope in Transformers** (Link)
- **Attentive fine-tuning of Transformers for Translation of low-resourced languages** (Link)
- **Offensive Language Identification in Low-resourced Code-mixed Dravidian languages using Pseudo-labeling** (Link)
- **Evaluating Pretrained Transformer-based Models for COVID-19 Fake News Detection** (Link)
- **Domain Identification of Scientific Articles using Transfer Learning and Ensembles** (Link)
- **Transfer Learning for Offensive Language Detection in Dravidian Languages** (Link)

ACHIEVEMENTS

- **Top 1%** in KCET 2018 and **top 2%** in JEE Mains 2018.
- **Rated 5*** in Python and Problem Solving in Hackerrank.
- **Two time** Karnataka Talent Search Examination (KTSE) top 10.
- Top performance in **Kaggle** competitions and **Flipr 7.0** hackathon.