Jithin Varghese

Email: jithinanievarghese@gmail.com
Mobile: +918921021915, 9495851564

https://www.linkedin.com/in/jithinvarghesein
https://www.kaggle.com/jithinanievarghese
https://github.com/jithinanievarghese
https://medium.com/@jithinanievarghese

SKILLS

Python, PyTorch, Pandas, Transformers, SentenceTransformers, scikit-learn, NumPy, NLTK, Spacy, Playwright, asyncio, Redis, and Scrapy.

NLP, Machine Learning, Deep Learning, Image Processing, Web Scraping, Data wrangling, Git, Project Management, and Problem-Solving.

FastAPI and onnxruntime (hands-on-experience).

EXPERIENCE

- Turbolab Technologies Private Limited — *Ernakulam, Kerala-India*

  Associate Python Developer — *May 2021 - Present*
  - ❑ Developing product matching algorithms for an e-commerce market intelligence platform using NLP, machine learning, and deep learning techniques.
  - ❑ Inferring technical journals and blogs related to problems and implementing the best workaround for the same.
  - ❑ Fine-tuning Language models like BERT and sentence transformer models for downstream tasks like classification and semantic similarity.
  - ❑ Gathered high-quality training data using web scraping techniques and annotated training data using weak supervision and rules, thereby reducing the cost of manual labeling.
  - ❑ Developed web crawlers for big data gathering and scraped relevant products for a search using NLP, regex, and rules. Saved 4.5k unwanted product page requests in every quarterly schedule data gathering by sending requests only to the relevant products for a search.
  - ❑ Data Wrangling using pandas and Numpy.

- Keltron Controls Division — *Aroor, Kerala-India*

  Graduate Apprentice-Mechanical Engineering — *Dec 2018 - Dec 2019*
  - ❑ Design and Development of Pneumatic Actuator assembly for various projects.

Kaggle, GitHub, and Medium Contributions

- *Kaggle Datasets Expert and Contributor*

  Competitions:
  - ◦ Natural Language Processing with Disaster Tweets (Ongoing-Knowledge)**:** *Rank : 57th of 1003.*
  - ◦ U.S. Patent Phrase to Phrase Matching (Completed)**:** *Rank : 1747th of 1889.*
  - ◦ Jane Street Market Prediction (Completed)**:** *Rank : 3109th of 4245.*

  Notable Notebook and Datasets:
  - ◦ [To predict whether a tweet is related to a disaster or not using pre-trained language model BERTweet and PyTorch](#)
  - ◦ https://www.kaggle.com/datasets/jithinanievarghese/drugs-side-effects-and-medical-condition
  - ◦ https://www.kaggle.com/datasets/jithinanievarghese/critic-reviews-of-all-time-tv-shows-metacritic

- *GitHub*
  - ◦ [Web Scraping with product search relevance using NLP, rules, and image classification](#)
  - ◦ [Fast API and ONNXRUNTIME - PyTorch Image classification Model Deployment](#)
  - ◦ [Scrapy e-commerce web crawler](#)

- *Medium*
  - ◦ [Hard-Mining Negatives for Semantic Similarity Model using Sentence Transformers](#)

EDUCATION

- **College of Engineering Adoor (Cochin University of Science and Technology)** — Kerala, India

  Bachelor of Technology in Mechanical Engineering; CGPA: 8.01/10 — *2014 – 2018*

- **Mount Bethany Public School, Kumbhazha** — Kerala, India

  Higher Secondary Education (IT-Maths): Percentage: 91% — *2012 – 2014*