Naimish Sharma

BS(BTech) + MS
Major in Electrical Engineering and Computer Science
Minor in Data Science and Engineering
Indian Institute of Science Education and Research, Bhopal

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Github
LinkedIn

Education

Degree/Certificate	Institute/Board	CGPA/%	Year
BS(BTech) + MS	Indian Institute of Science Education and Research, Bhopal	8.4/10	2018-2023
Senior Secondary	ISC Board	83.6%	2017[1]
Secondary	ICSE Board	84.5%	2015

Experience

- **SHL India Pvt. Ltd.** *Gurugram, India*
  AI Research Intern June 2023 – September 2023
  - Developed models for evaluating pronunciation and fluency using free speech audios in SVAR, SHL's AI-powered spoken language evaluation tool. Crawled a website to gather **450+** companies earning calls transcripts using **Selenium**, **Beautiful Soup** and **Python**.

- **Indian Institute of Science Education and Research, Bhopal** *Bhopal, India*
  MS Thesis Under Dr. Ir. Arpit Sharma(IISERB) August 2022 – May 2023
  - **Unsupervised Machine Learning for Software Requirements**:Worked on improving the quality of **Requirement Engineering(RE)** artefacts using various **ML, NLP and deep learning techniques**. Improving the quality of artefacts involves **auto completion** of incomplete requirements, clustering requirements into different classes, **interpretability** of clusters. Used deep learning models such as **USE, BERT, SRoBERTa, LaBSE** etc.

- **Indian Institute of Science Education and Research, Bhopal** *Bhopal, India*
  Summer Research Intern May 2022 – July 2022
  - **Fact Checking in Social Media:** Worked on **FEVEROUS** (Fact Extraction and VERification Over Unstructured and Structured information) dataset to verify the claims in posts on social media.

- **Indian Institute of Information Technology, Allahabad** *Remote*
  Summer Research Intern @ Center for Cognitive Computing June 2021 – July 2021
  - **Black and White Image Colourization:** Implemented and explored challenges involved in Realistic Colourization of Black and White Images using **Convolution Neural Networks** and using CIELAB colour space.

Projects

- **Automatic Word Embeddings-Based Glossary Term Extraction from Large-Sized Software Requirements**
  BS Project Github
  - Used **Word2Vec, FastText, pre-trained BERT** models to generate word embeddings of terms present in 2900+ requirements of CrowdRE dataset and in a domain-specific corpus (made by **crawling relevant wikipedia pages**) Evaluated domain specificity of terms using cosine similarity score, achieving a **recall** of **0.74**

- **Crop Recommender**
  Course Project Github
  - Developed and deployed (using **Streamlit**) a predictive model trained on **crop recommendation dataset** using different supervised classification algorithms which recommend best crop to grow among **20+ unique crops** using pH, nitrogen, phosphorus and potassium contents of the soil and parameters like temperature, humidity, rainfall.

Technical Skills

- **Language**:Python, SQL, C/C++, Matlab, HTML, CSS, LaTeX
- **Data Science/Machine Learning**:Exploratory Data Analysis, Deep Learning, Natural Language Processing, Classification, Clustering, Regression, Bagging, Boosting, Statistics, Data Visualization, LLMs, Generative AI, GPT
- **Frameworks**:Tensorflow, Pytorch, Flask
- **Tools/Libraries**:Hugging Face, Langchain, Git, NumPy, Pandas, Scikit-Learn, Keras, Matplotlib, NLTK, Docker CI/CD pipeline, Shell scripts, Linux, MS Excel

Relevant Courses

Data Science and Machine Learning	Natural Language Processing	Deep Learning
Advanced Programming in Python	Data Structure and Algorithms	Fundamentals of Database Systems
Operating Systems	Computer Networks	Internet of Things (IOT)

Achievements

- Qualified GATE 2023 and JEE Advanced 2018 (scored among top 12% of students who appeared in the exam)

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[1] 1 Year Gap for IIT-JEE Preparation