

HARSH SHARMA

NLP Developer | ML Researcher | Aspiring Data Scientist

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in harshsharma27

harshgeek4coder

Portfolio - harshgeek4coder.github.io

EXPERIENCE

MITACS GRI Research Intern (SDE-NLP) - University of British Columbia

June 2022 – August 2022 BC, Canada

- Research Software Engineer Intern - Pre-training Language Models for Java Bytecode to Documentation and fine tuning it to downstream tasks like code to natural language and code summarising.

Deep Learning (NLP) Intern - NeuralSpace

July 2021 – November 2021 Bangalore, India

- Exploring Neural Machine Translation using MarianMT and Document categorization using BERT and transformers for low-resource languages and tested API endpoints inference.

NLP Research Intern - Malaviya National Institute of Technology

May 2021 – Jan 2022

- Multimodal Deep Learning - Using hybrid NLP And Image Feature Extraction for deriving Insights for detecting suspicious users or posts in social media with multimodal approach.

Lead Machine Learning Developer - Heiphen

April 2021 – November 2022

- Built Models For Custom Metrics delivery for Fake reviews and Sentiment analysis; Developing custom NER Models for Resume Parser; Deployed Models using FastAPI on AWS.

Research Intern - SRM Institute of Science and Technology

July 2021 – Present

- Research Projects - Received SIIC Funding for IOT-ML based project - Smart electricity conservation system ; Cognitive E-Journal Analysis for Depressions using NLP and Deep Learning (Currently Working).

TECHNICAL SKILLS

- Deep Learning - Natural Language Processing (NLP), Time Series Analysis and classical ML algorithms.
- ML Frameworks - PyTorch, Tensorflow, Keras, HuggingFace, Transformers Scikit-Learn, NLTK
- Database - SQLite3, MongoDB-PyMongo, Firebase-Pyrebase4
- Web FrameWorks - API, Flask, FastAPI, Streamlit, HTML, CSS
- Programming Languages - C/C++, Python, R
- Cloud Platforms - AWS-EC2 Instance, Heroku

ACHIEVEMENTS

- Hackathons - SLAC 2.0 - 8th Position out of 170 teams, Octahacks 3.0 - 13th Position out of 400+ Teams and Hack the CW - 12th Position out of 120+ Teams.
- Project Showcase - "Best Project of the Pod" for TF-Watcher package in MLH Pre-Fellowship Summer'21, "SuperColour" Project featured in Streamlit Weekly Community Forum Nov'20.
- Selected and contributed in prestigious global developers communities like Major League Hacking (MLH) and Microsoft Learn Student Ambassadors (MLSA).

EDUCATION

B.Tech in Computer Science Engineering - SRM Institute of Science and Technology

2019 – 2023 Chennai, Tamil Nadu

- 9.7 CGPA -7 semesters.

Higher Secondary Education - Mahaveer Public School

2017 – 2019 Jaipur, Rajasthan

- 82% in CBSE Boards Exam for Class XII.

PUBLICATIONS

An effective Deep Learning Pipeline for Improved Classification, generation and recommendation under Bloom's Taxonomy

- Accepted in Springer - Education and Information Technologies Journal (Impact factor - 3.6).

Smart and Context-Aware System employing Emotions Recognition

- Published in IEEE-INCET'21 Conference- Published in May 2021.

PROJECTS

Langspot - NLP based automated package

- Python-NLP based automated packages for easy to import and use for general NLP Use-cases.

Conjexure-Stock Market Forecasting

- ML based web app for forecasting the stock prices, built using deep learning

Emergency-Ally

- ML based web App that provides SOS or Emergency Level Solutions for encountering Disaster Situations.

Sike-Tool - Remote Mental Health Monitor

- Web application that aims to analyze the user's mental health by analysing e-journals with multimodal approach.

EXTRACURRICULAR SKILLS

- Associate Tech Director - Data Science Community SRM - Worked on state-of-the-art projects, research papers, and technical blogs and managed/organized the events in the community, mentored juniors on deep learning boot camps, and hosted virtual webinars.
- Public Speaking - Webinars at Tensorflow Group Chennai, NeuRes (Data Science Community SRM), Github Community SRM (Faculty Dept. CSE KTR SRM)