Nipuna Chhabra

Software Engineer

Results-driven Computer Science graduate with a minor in Big Data, equipped with a strong foundation in software development, and machine learning. Experienced in designing and developing chatbots, deploying ML models on AWS, and contributing to testing suites for Kernel Migration. Passionate about leveraging technology to drive innovation and solve complex problems.

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EDUCATION

Bachelor Of Technology
Manipal Institute of Technology

07/2019 - 07/2023   *8.63*

- Cloud Computing Big, Data Management, Machine Learning, Graph Analytics, Software Testing, Computational Intelligence and Sustainability, Enterprise Data Architecture, Engineering Economics

INTERNSHIPS

Intern
Aruba/HPE

02/2023 - 07/2023   *Bangalore*

- Developing a testing suite for Kernel Migration.
- Developing a Lab Maintainance Script for Aruba Switches.
- Development experience with bootloaders, watchdog, EMMC.

NLP+Chatbot developer
Gravitas

02/2022 - 05/2022

- Designed and extensively documented chatflows.
- Developed a chatbot using python, AWS LexV2, Lambda, S3bucket , and CloudWatch.
- Deployed ML model on AWS using flask.

Research Intern
IIT Hyderabad

05/2022 - 07/2022

- Worked under the guidance of Dr Jyothi Vedurada.
- Developing a graph neural network model for NL-PL task.
- Build the pipeline for java code snippets to be fed into the model.

SKILLS

C++ C SQL Python Git Linux

Data Science Natural Language Processing

ML Libraries : nltk, numpy, pandas, pytorch, scikit-learn, keras, matplotlib, sklearn, pyspark.

Swift5 (iOS Development) Problem Solving

Data Structures AWS Databases HTML

PERSONAL PROJECTS

PUBLICATION: "Something Something Hota Hai ", - An Explainable Approach towards Sentiment Analysis on Indian Code-Mixed Data

- accepted at Workshop on Noisy User-generated Text (W-NUT), **EMNLP 2021.**
- discusses the implications **model-agnostic explainable methods(Lime and Shap)** for code-mixed data. Models compared - SVM, Random Forest, CNN, CNN with Glove Embeddings, LSTM, LSTM with Glove Embeddings, XLMRoBERTa.

Lumos - iOS App(Swift5) (11/2020 - 01/2021)

- Worked with **UIKit**, to deliver **responsive UI** with **dark mode** support**;** implemented **secure user authentication** and fetched data using a **RESTful API backend.**
- The app was designed **programmaticall**y, following **MVC architecture** for modularity and improved upon multiple times to get **better compile-time efficiency.**

CO-CURRICULAR ACTIVITIES

Apple Developers Group - Vice President
Mentored students with introductory iOS development. Project Management, maintenance and supervised harmonious functioning of App development, Web development, ML, backend and logistics departments.

Research Society Manipal
Participation in Regular paper discussions, and collaborations in research

CVIT Summer School, IIIT Hyderabad - 2022
Got a comprehensive understanding of 3D computer vision, from the basics of geometry processing algorithms and tools to cutting-edge deep learning techniques

Volunteer Service Organisation
Undertook initiatives to visit nearby slums, pediatric wards, and orphanages to help the inhabitants. (32hours)