SUNIL NISHAD







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EDUCATION

M.S. (By Research), Computer Science & Engineering, 2020 Indian Institute of Technology, Kanpur



PyTorch,

5-course

Hewlett-Packard

from

B.Tech., Computer Science & Engineering, 2013 Jaypee University of Engineering and Technology, Guna

SKILL SET AND INTERESTS

• Languages : C, C++, Python, SQL,

TensorFlow, Pandas, Scikit-Learn,

Keras, Numpy, Power BI, Tableau,

Git, LaTeX, Windows, Red Hat

• Others: Mathematics, Algorithms,

Data Structures, Deep Learning,

• Machine Learning from Stanford

Enterprise Linux, Ubuntu

Machine Learning, Neural

Networks, Programming &

Working in groups

CERTIFICATIONS

specialization

Deep

Linux

University on Coursera

Learning,

deeplearning.ai on Coursera

• Algorithms from Stanford Online

• Chrome Extensions from Udemy

Education Services, Kanpur

Education Services, Kanpur

from

PUBLICATIONS

• Core Java from Hewlett-Packard

Cloud Computing from Cetpa

Infotech Private Limited, Noida

MATLAB, Core Java and HTML

• Platforms/Tools

WORK EXPERIENCE

Deloitte USI, Gurgaon

Data Scientist 2



- Worked on Graph Neural Networks and Deep Learning
- Developed a bipartite graph using patient and diagnosis data and designed a model in python to predict the treatment patients will get using node embeddings
- Performed EDA on graph data, plotted tSNE and Umap of node embeddings for analysis

ClearTax, Bangalore

Software Engineer

• Developed an E-Invoicing API in python to generate B2C QR code

Bharat Electronics Limited - Central Research Laboratory, Ghaziabad

Project Engineer

• Worked on Collision Resolution Server(CRS), Weapon Assignment(WA) and Decision Support System(DSS) modules of Integrated Air Command and Control System Phase-V (IACCS-V) project

- Developed CRS Flight Plan algorithms that were used to detect collision of flights in C++ language
- > Used Data Distribution Services technology to interact with other modules like Threat Evaluation, Recovery, Web, Database etc.
- ➤ Modelled WA backend algorithms in MATLAB that assign weapons to neutralize the targets
- Developed **Simulator** for CRS, WA and DSS in Qt
- > Documented System & Software Requirements, Software Architecture and Testing documents in IBM Doors & IBM Raphsody application

Tectura Infotech Pvt. Ltd., Noida

Associate Software Developer

• Worked on ERP software Microsoft Dynamics Axapta 2012

TECTURA 6 months

PROJECTS

Reading Comprehension Question Answering System

Introduction to Natural Language Processing \ IIT Kanpur

- For a given passage and relevant questions, we find the most appropriate span in the passage which answers the question
- Used Bi-Directional attention flow based model for training

Using Hashtags for News Retrieval

Information Retrieval \IIT Kanpur

- Used IR models to explain Twitter hashtags via relevant external news articles for general audience to understand the Twitter trending
- Tweets for the hashtag are collected and converted to query which retrieves the most relevant news articles

Creating a voting platform for Student Senate election using Ethereum Blockchain

Blockchain Technology and Application | IIT Kanpur

Built smart contract in solidity

Measuring psychological distance between words

Computational Cognitive Science | IIT Kanpur

Built python code to find Normalized Google Distance between two words and compared it with human similarity values by plotting

- GraphReach: Position-Aware **Graph Neural Network using** Reachability Estimations in International Joint Conference on Artificial Intelligence (IJCAI), 2021, Montreal, Canada
- Achieved relative improvement of upto 40 percent in ROC AUC scores, on the task of **link prediction** and pairwise node classification using **node embeddings,** compared to state of the art models like PGNN, GCN, GraphSAGE, GAT & GIN
- Lexical and Parser tool for CBOOP **program** in *International* Organization of Scientific Research Journal of Computer Engineering, Vol. 10, Issue 6, May-Jun 2013

ACHIEVEMENTS

- Qualified the Qualification Round of Google Code Jam 2016, 2020, 2022 and Facebook Hacker Cup 2019
- 24th rank in Automatic Graph Representation Learning challenge in KDD Cup 2020 provided by 4Paradigm, ChaLearn, Stanford and Google
- Best rating of 1802 on HackerRank and 1571 on HackerEarth
- Secured 1867th rank in Google Kick Start Round G 2019
- Qualified for Round 3 of IndiaHacks 2017: Programming challenge organized by HackerEarth
- Won 1 Silver and 3 Bronze medals in different rated contests on HackerRank
- Secured 53rd rank out of 4837 participants On the plague trail: HackerEarth Machine Learning challenge organized by HackerEarth
- Qualified SnackDown Online Qualifier 2017 organized by CodeChef and Secured a rank of 2951 in SnackDown Online Pre-Elimination Round
- Secured 1st rank in International Informatics Olympiad in class XII at Delhi Public School, Kanpur



4 months







