Akanksha Paul

FDUCATION

Indian Institute of Technology Ropar (since July,2016)

MS(R) in Machine Learning Expected Grad. May 2019 CGPA: 8.57

Indira Gandhi Delhi Technical University for Women

B.Tech (Information Technology) 2011-2015 84.99%

Doon Public School

CBSE (Class 12th) 2011 94%

Doon Public School

CBSE (Class 10th) 2009 92.2%

AREAS OF INTEREST

Machine Learning, Deep Learning and Computer Vision

SKILLS

Languages:

C/C++, Python, ABAP

Deep Learning Libraries:

Tensorflow, Keras

Network Protocol:

DHCP

Databases:

Oracle 11g, MySQL

Experience in SAP's Business Warehouse Query Designing Tools

Other Softwares:

MATLAB, WEKA

PROFESSIONAL EXPERIENCE

Indian Institute of Technology, Ropar

Aug 2017 - Jun 2018

Teaching Assistantship

- Machine Learning with Dr. Narayanan C Krishnan, Fall 2017
- Artificial Intelligence with Dr. Narayanan C Krishnan, Spring 2018

SAP Labs Jul 2015 – Jul 2016

Associate Software Developer

- Worked for Commerial Project Management in Project Issue and Change Management(PICM)
- Developed and deployed Key Performance Indicators for monitoring the project using SAP's NetWeaverWebDynPro UI configurations and ABAP
- Developed analytical reports for assessing the project performance using SAP's Business Warehouse Query Designing Tools
- Responsible for Ease of Deployment workforce

Cisco Systems Ltd

Jun 2015 - Aug 2015

Interned as Software Engineer

- Understood the basic concepts of DHCP and implemented its configurations for various topologies
- Automated the process of generating configurations of DHCP using Rapid Scripting Tool
- Minor fixes to the existing code was also proposed using ABCC (Accessing, Building, Coding and Committing)

PROJECTS

Feature Generating Networks for Zero Shot Learning

• Open source code of Feature Generating Networks for Zero Shot Learning was made available in Tensorflow.

Analyzing the performance of Zero Shot Learning

- Learned a common label space for ZSL and visualized the mapped examples in this common embedding space.
- Observing the effect of zero shot learning on various parameters like number of training instances per class, number of training classes and if some instances of test classes are already present.
- Improving the performance on AWA by combining the learned embeddings with already given class label embeddings.

Genre Classification

- From GTZAN Genre Collection extracting 1000 tracks of classical, hiphop, metal and pop genres.
- Training MLP on MFCC features extracted from each of the audio tracks.

REFERENCES

Dr. C.K. Naraynan

Assistant Professor Computer Science and Engineering Department IIT Ropar

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Dr. Neeraj Goel

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Computer Science and
Engineering Department
IIT Ropar

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Solving Sudoku via CSP

- Converting Sudoku into Constraint Satisfaction Problem.
- Solving it through strategies like backtracking search, backtrack search with minimum remaining value heuristic, backtracking search with the least constraining value heuristic and MAC.
- Comparing the various strategies on parameters like number of backtracks, time taken and memory constraints.

Website for CSE department IIT Ropar

www.cse.iitrpr.ac.in

Data Analytics in Smart Homes

- System for recognizing activities in a home via supervised learning of 14 days was developed.
- To ensure safety of an elderly aged person, various parameters were devised like level of independence, fitness quotient, accident detection.
- Ranked 3rd among Department of IT, IGDTUW.

ACHIEVEMENTS

- Highest CPGA across all MS(R) batches in IIT Ropar
- Ranked 520 across the globe in ACM ICPC 2014
- Head coordinator of Website team, technical events in ESPECTRO'13.
- Won 1st Prize in Tech Fest Event named "SEA OF C", "TODDER" (based on C, C++) in 2014,2013
- Participated in coding competition like, CODEVITA'13, ACM ICPC'14, CODEVITA'14.
- Won 2nd Prize in Tech Fest Event named "TODDER"(based on C++
 coding)
- Awarded with "Best Student Of The Year" in Doon Public School, 2011
- Granted a scholarship in 10thand 12th from Doon Public School
- Awarded with "Little Mindian Scholarship" from HCL, 2009