KARAN GULERI

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EDUCATIONAL QUALIFICATIONS AND ACHIEVEMENTS

Year	Degree/Certificate	Institution/School	CGPA/Percentage
2015-2019	B.Tech., Computer Science and Engineering	National Institute of Technology Hamirpur	7.81/10
2014	ClassXII:State Board	Swami Vivekanad Sr. Sec. School (H.P.)	80.6%
2012	ClassX: CBSE Board	MCS Raja Ka Bagh (Himachal Pradesh)	10/10

TECHNICAL SKILLS

- C++, Python, C, Octave, Data Structures, Algorithms, Flask

CURRENT EXPERIENCE

Engineer – "SAMSUNG RESEARCH & DEVELOPMENT INSTITUTE NOIDA" (Jun'19-Present)

Claim Prediction System

- **Objective:** This project deals with predicting PI and CI Large Loss claims propensity. The prediction is performed after 10 days from the date of claim lodgment
- Models/Techniques : Decision Trees, Random Forest, GBM
- Liaise with functional lead to understand and clarify meaning and impact of key data variables
- Data analysis and manipulation using various techniques like reading, sorting, merging, dividing, normalizing, appending, concatenating, transforming, interleaving and handling missing values, plots, graphs, variables selection.
- Model development, testing and getting inferential input to be provided for business decision support.
- Representing results in MS Excel and PowerPoint presentation.

PL Utility Tool

- **Objective:** To automate and reduce manual work in ongoing Projects (e.g. M30s)
- Designed backend and UI in python, and created an application that can reduce the work of 1-2 hour to 5 minutes
- Tool is currently being used by 150 members, Led a team of 3, (received Shining star award for the tool).

PROFESSIONAL INTERNSHIP EXPERIENCE

INTERN – "CENTRE OF DEVELOPMENT AND ADVANCECOMPUTING BANGALORE" (Jun'18-Jul'18)

"Developed an email spam detection add-on for Mozilla Thunderbird using Python Flask"

Development	- **Projects: Developed an email spam detection add-on for Mozilla Thunderbird** Successfully - designed two Multi layered Neural Networks and Implemented Back propagation algorithm along with gradient descent. - Proposed a **new** algorithm to optimize the value chosen for the learning rate used in gradient descent.

KEY ACADEMIC PROJECTS

NOISE FILTERING FROM AUDIO USING ANN **Mentor: Dr. Vinay K. Jadoun** (Aug'17 – Nov'17)

- **Objective**: To separate audio vocals from the mixture of vocals and background noise
- Designed Multi layered **Neural Network** and Implemented Back propagation algorithm in Octave for model, **Led** a team of 5 members
- Created an application that could be trained using data sets for solving the problem

AIR-O-DRUM **Mentor: Mr.Amit Puri** (Apr'17-May'17)

- **Objective**: To create a sensor this plays the drums and piano on the computer screen through webcam while moving your hands.
- Proposed and developed the algorithm to detect a particular color in the sensor and to play the particular sound using Open CV and Python, the model works well for the Linux and windows platform, **Led** a team of 4 members

AWARDS AND HONOURS

- Shining Star Award for completion of Projects before deadline and Tool Development (Samsung annual awards).
- Won First Prize in college Hackathon 2.0 2017 organized by CSE department of NIT's official club C-SEC
- Runner up in Hackathon 1.0 2017 organized by NIT's official app team