Tushar Gurjar

3rd Year Undergraduate, Computer Science, IITK
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EDUCATION

IIT KANPUR
B Tech, CSE
2016 – 2020 (Expected)
CPI: 9.0/10.0

12TH GRADE
Shri Parshawanath Jain Vidhyalaya (CBSE)
2014-2015
Aggregate: 93.60%

10TH GRADE
Shri Parshawanath Jain Vidhyalaya (CBSE)
2012-2013
CGPA: 10/10

LINKS

Github:// tushargr
Homepage:// tushargr

COURSEWORK

Data Structure and Algorithm
Computer Organization
Algorithm-II *
Operating Systems *
Theory of Computation *
Operating Systems
Intro to ML *
* ongoing

SKILLS

Programming
C • Python • Bash • Awk • Pthreads* • Cuda*
Web
Php • HTML • CSS • jQuery • Selenium
Utilities
Git • Tensorflow* • Keras • Latex
* beginner

EXTRA- CURRICULUM

Code-Fun-Do
Made a windows app "Storm" that suggests music based on the user's mood using C#.
Competitive Programming

WORK EXPERIENCE

GOOGLE SUMMER OF CODE '18
Organization- Submitty | May 2018 – August 2018

- My project involved working on plagiarism detector module of the organization.
- Made Java, Python, C++ tokenizer for plagiarism module. Implemented tokenizers using Microsoft Language Servers.
- Worked on re-implementation of plagiarism module from haskell to python.
- Improved the visualization tools for the plagiarism interface
- Created Selenium Test for various features throughout Submitty.
- Automated Submitty Plagiarism Detector so as to run it from interface
- Worked on Submitty daemon to implement build jobs for plagiarism detector.

PROJECTS

BATTLESHIP GAME AI USING REINFORCEMENT LEARNING
Programming Club, IITK | May 2017 –July 2017

- The aim of the project was to make AI for battleship board game.
- Used Neural Network to store states for the game.
- Implemented two models- Monte Carlo and Temporal difference learning to build the agent.

IMAGE ANALYSIS USING MACHINE LEARNING TECHNIQUES
Programming Club, IITK | May 2017 –July 2017

- The aim of the project was to make a image analyzer that can extract features like text from image.
- Implemented text detection using MSER technique, word formation using geometric constraints, character segmentation using connected components.
- Finally used Convolutional Neural Network for character recognition.

BANK NOTE CLASSIFICATION
Self Project

- The Project was aimed at making bank-note classifier taking note image as input.
- Used Histogram of Gradient as the input to SVM to remove color variability between old and new bank notes.
- Used SVM to classify bank note in correct categories.

ACA SEMESTER PROJECT
Association for Computing Activities, IITK | Jan 2017-Apr 2017

- The Project was aimed at learning various fields in computer science like Web Development, Machine Learning, Web scraping and Algorithms.

AWARDS

2016 All India Rank 759 in JEE ADVANCED
2016 All India Rank 5673 in JEE MAINS
2016-17 Academic Excellence Award, IITK

POSITION OF RESPONSIBILITY

IITK ACADEMIC MENTOR
Took institute level doubt sessions for Esc101 course.
ACA Semester Project Mentor
The project was aimed at making Movie Recommender model similar to Amazon Prime Videos. Mentored students in learning web utilities- Php, jQuery.