KALYAN CHIRLA

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Github | Linkedin | Codechef | Hackerrank

EDUCATION

University of Leeds *Jan '21 - Present*
Master of Science in Advanced Computer Science *Percentage: 78.3%**
Recent Coursework: Artificial Intelligence, Data Science, Cloud Computing

BML Munjal University *Aug '16 - Jun '20*
Bachelor of Technology in Computer Science *Grade: First Class*
Relevant Coursework: Data Structures, OOPS, Distributed Systems, Advanced Analysis of Algorithms

WORK EXPERIENCE

Software Intern | **Hence Data Innovations Pvt. Ltd.** Jan '20 - May '20
Technologies: Selenium WebDriver, Java, TestNG, Maven *Hyderabad, India*

- Worked on writing automation test cases for Times Manager Application
- Enhanced the system to periodically run tests and performed rerunning of tests to prevent false negatives

Research Intern | **Indian Institute of Technology, Kharagpur** May '18 - Jul '18
Technologies: Algorithms, Graph Theory, NP-Completeness, C++ *Kharagpur, India*

- The objective was to analyze the problem of Burning graphs and finding the min. time to burn a graph
- Implemented a heuristic-based approach to solve the problem on randomly generated graphs
- Compared the burning numbers of a large number of randomized graphs to estimate the approximate value of burning number for any graph given the number of vertices and edges

PROJECTS

Content Aware Image Resizing [Image Processing, Python, Dynamic Programming, PIL]
Code: github.com/kalyanchirla/Content-Aware-Image-Resizing

- Built an image resizing module which reduces the height and width of any image preserving the important content of the image using the seam-carving algorithm
- Enhanced the project by adding an extra module to remove any selected object in the image

Driver Alertness Detection [Machine Learning, Data Analysis, Python]
Code: github.com/kalyanchirla/Driver-Alertness-Detection

- Utilized the training data to detect if a driver is alert or not
- Performed data cleaning and exploratory data analysis to identify outliers and correlations in data
- Achieved best accuracy of 99.51% using Random Forests after hyperparamter tuning

Automatic Code Evaluator [Algorithms, Graph Theory, OOPS]

- Developed an application which automatically evaluates the user code for any given question
- It can point out the part of code where the user has made a mistake and therefore helps in debugging
- Checks plagiarism by going through the control flow of code using subgraph isomorphism

TECHNICAL SKILLS

Programming Languages	C/C++, Python, Java, Javascript
Software and Frameworks	Pytorch, Sklearn, PySpark, Flask, MySQL, PostgreSQL, REST API
Tools and Technologies	Git, Machine Learning, Computer Vision, Deep Learning

ACHIEVEMENTS

- Achieved a global rank in the top 6^{th} percentile in March Challenge 2019 Div 2 on Codechef
- Solved over 1000 coding questions across various coding websites
- Featured as TopCoder of the week on SPOJ: Every week SPOJ releases list of coders who have scored most points in the last week