RAVINDER SINGH

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🎓 EDUCATION

Aug 2018 - Dec 2019	Master of Computer Science	NC State University, Raleigh, NC, US	GPA : 3.9/4.0
Coursework	Data Structures & Algorithms, Object Oriented Development, Automated Learning and Data Analysis, Software Engineering, Algorithms for Data Guided Business Intelligence, Neural Networks and Deep Learning		
Sept 2014 - May 2018	B.Tech in Computer Engineering	Dharmsinh Desai University, Nadiad, GJ, IN	CGPA : 8.7/10
Coursework	Operating Systems, Data Structures, Computer Networks, Software Engineering, Image Processing, Data Mining, Artificial Intelligence, UNIX Scripting and Tools, Service Oriented Architecture		

☰ SKILLS

Programming	C, C#, Python, Java, Assembly, Prolog, Ruby
Database	Oracle Database, Microsoft SQL Server, MySQL, MongoDB, PostgreSQL
Web Development	HTML/CSS, Bootstrap, Javascript, PHP, ASP.NET, Node.JS, AngularJS, ReactJS, JSON, REST-Api, GraphQL, Relay
Tools & Frameworks	Visual Studio, MATLAB, Jupyter, R, Tableau, NI LabVIEW, Spark, Kafka, TensorFlow, Keras, OpenCV, Caffe
Certifications	'Machine Learning by Stanford University' on Coursera. (September 17, 2017)
Areas of Interest	Machine Learning, Data Science, Computer Vision

💼 WORK EXPERIENCE

Facebook Inc, Menlo Park, CA, US   Enterprise Engineer Intern   May 2019 - August 2019

> Developed a new tool for the Safety & Workplace Products at Facebook named Awareness Hub.
> Helps the security teams to keep an eye on the real-time global incidents.
> Created a Chronos job for fetching and storing API feeds in extensible data models.
> Integrated the tool with a current Workplace feature 'Safety Check' enabling safety check creation for employees.

`Hack` `ReactJS` `Relay` `GraphQL` `Distributed Database Systems`

💻 PROJECTS

MACHINE LEARNING AND DATA ANALYSIS   INTELLIGENT CLASSIFICATION OF WEB PAGES

Performed web page classification on a data set comprising of 8282 web pages categorized as 7 different classes. Implemented Support Vector Machines, Naive Bayes and Long Short Term Memory classifiers. Achieved an accuracy of 95% and above with the F1 score of 85% for LSTM and SVM. Performed feature exploration via inclusion of hyperlinks and achieved comparable results.

`Python` `NLTK` `Scikit-Learn`

DEEP LEARNING AND COMPUTER VISION   VIDEO CLASSIFICATION

Created a classification model for action recognition in videos to distinguish among 101 actions. Performed Comparative analysis over UCF101 dataset and comparing 3 different deep learning architectures : Conv3D and Attention, Temporal Segment Networks, I3D with the baseline Two Streams architecture. Implemented the architecture to execute on Google Cloud Platform for computation.

`Python` `TensorFlow` `OpenCV` `Caffe`

MINING SOFTWARE REPOSITORY   GITHUB SOURCE CODE ANALYSIS

Mined open source repositories and computed major contributors at file-level. Drew correlations among files to study their dependency with each other. Integrated the analysed data with Tableau for a better visualization and analysis by creating a dashboard which can provide all the functionalities.

`Python` `Tableau` `HTML` `Javascript` `PostGreSQL` `D3.JS` `AngularJS`

CONSOLE BOT   FOOTBALL LIVE SCORE SCRAPER

Simplified the effort of following football matches during the examinations. Scraped live scores and provided accurate notifications to the users on command prompt for all live football matches from www.goal.com. Provided a list of live matches for selection and subscription for the respective notifications.

`Node.JS`

REAL TIME APPLICATION   ONLINE BIDDING SYSTEM

Developed a real-time bidding system for auctioneers and people to list their products for auction. This project is deployed on college server and identified bids for more than one user and was used in the college tech-fest in a competition named 'Hardware Rush'.

`Socket.io` `Node.JS` `AngularJS` `MongoDB`

WEB APPLICATION   ONLINE TRAVEL MANAGEMENT SYSTEM

Created a medium for users to compare various holiday packages, book the appropriate ones and also for travel agencies to list their packages for users. Created a sub-section for creating custom trips and comparing quotations from various agencies.

`ASP.NET` `C#`