KARAN SINGLA

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PROFESSIONAL SUMMARY AND SKILLS

- 2.5+ years of full-time Software Development experience
- **Strengths:** Data analysis, machine learning, natural language processing, cloud computing, computer vision
- Specialization in 'Applied Data Science with Python' from UofMichigan, Coursera
- Languages: Python, SQL, Java, C#, C++
- Data/ML/AI: Spark, Tableau, Tensorflow, Keras, Scikit-learn, Pandas, Matplotlib, Seaborn, NLTK, Pytorch
- Database: MySQL, MS SQL Server, NoSQL MongoDB
- Graduate CS Students Representative, Volunteer for GSS, ISA at the University of Windsor

EDUCATION

Master of Applied Computing	University of Windsor, ON, Canada	GPA 90/100	2019-2021
Bachelor of Computer Science	JIIT, India	GPA 79/100	2013-2017
WORK EXPERIENCE			
Senior Software Developer at UST G	lobal		Mar 2018-Jul 2019
ICE [Python-Falcon, Azure, MongoDB]: NLP platform for cognitive automation		
 Implemented RESTful APIs for te 	ext mining, named entity recognition, predict	ive modeling	
 Responsible for integration of presented in the present of the prese	re-trained models for custom and default tag	ging, training	
 Appreciation award for perform 	ance and contribution to the team and delive	ery account	
Software Engineer at Infosys			Jul 2017-Mar 2018
On-premise applications migration to	cloud Azure [C#, SQL, Powershell scripting, A	Azure]	
 Provided infrastructure, virtualization 	zation services on cloud MS Azure		
 Deployed applications, database 	es on virtual servers and completed testing a	fter migration	
Software Engineer Student Intern at	Infosys		Jan 2017-May 2017
CrypChat [C#, .NET MVC, MS SQL Serve	er]: Chat messenger with end to end encryptic	on	
 Took ownership of backend dev 	elopment and database management		
 Worked on encryption algorithn 	ns such as RSA, AES, Vignere, Transposition		
Web Developer Intern at Tnine Infot	ech		Jun 2016-Jul 2016

MOST RELEVANT PROJECTS

YouTube Statistical Data Analysis (academic)[Python, Spark]: Analyzed public actions on YouTube Feb 2020-Apr 2020 platform

COVID-19 related data mining using YouTube Data v3 API

check using Edit-Distance algorithms

Data Cleaning, Processing and Visualization using Spark, Pandas, Matplotlib, Seaborn

Credit card fraud detection, Spam Detection (personal)[Python, Scikit-learn, Pandas]:

Jan 2020-Feb 2020

- Used Kaggle credit card fraud and spambase dataset respectively
- Used SVM, Naive Bayes classifiers and got accuracy of 96% and 91% respectively

Recognition of Postal Codes using Neural Networks (academic)[Python, Tensorflow, Jupyter]:

Used EMNIST-ByClass dataset and built the neural network with Adam optimizer function

Implemented inverted index, ranking using Quick-Select, auto-completion using Trie, spell-

Used OpenCV to pre-process, segment user image and identify the multiple characters

 Used multiple data sources like Fashion dataset, computer generated & real world images Used CNN filters, pooling to improve accuracy from 87% to 98% 	Oct 2019-Dec 2019
OTHER PROJECTS	
Travel Expert (personal)[Python-Django, Javascript-React, SQL]:	Mar 2020-Apr 2020
REST APIs for CRUD operations on travel packages	
 React reusable components for listing, booking, checkout pages 	
Virtual Assistant (academic)[Python-Django, Bootstrap]: Admin controlled chat-bot	Sep 2019-Dec 2019
 Used IBM Watson for named entity recognition to define the intents, entities, dialog flows 	
Built RESTful APIs to accommodate the admin changes made through the chat	
Web Search Engine (academic)[Java, Eclipse]: Based on data collected using web crawling	Sep 2019-Nov 2019

References available upon request

Oct 2019-Dec 2019