Karan Singla

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Github: github.com/karansingla06/

PROFESSIONAL SUMMARY AND SKILLS

- 2.5+ years of full-time Software Development experience, including 1.5 years in Machine Learning, Natural Language Processing (NLP) in a fast-paced working environment
- Strengths include Python, REST APIs Design & Development, Big Data Exploration, Statistics, Machine Learning, Natural Language Processing, Team Collaboration, SDLCs
- Specialization in Applied Data Science with Python from UoMichigan through Coursera
- Languages: Python (Django, Falcon, Jupyter), Java, C++, HTML/ CSS
- ML/Al Libraries: Scikit-learn, Pandas, Matplotlib, Numpy, TensorFlow, Spark, NLTK
- Databases: MongoDB, MySQL, MS SQL Server
- **Process and Tools:** Azure Devops, Docker containers, version control using GIT, Scrum and Agile development methodologies

EDUCATION

Master of Applied Computer Science at University of Windsor (UoW) with GPA: 90 2019-Present Bachelor's in Computer Science at JIIT, Noida, India 2013-17

WORK EXPERIENCE

Senior Software Developer at UST Global

Mar 2018-Jul 2019

Intelligent Computing Environment (ICE) [Python-Django]: UST's Machine Learning, NLP platform.

- Microservices based pipeline for text mining, named entity recognition, predictive modeling
- Integration of existing NLP models Spacy, CoreNLP, Mitie, CRF for language english, spanish
- Took ownership of backend (API Design and Development)
- Database Design, Code Review, Client Management, Collaboration with UI team, CI/CD

Software Engineer at Infosys

Jul 2017-Mar 2018

Migration of on-premise applications to Microsoft Cloud Azure

- Provided infrastructure, virtualization services on cloud MS Azure
- Deploying apps on virtual machines and testing after migration

Software Engineer Student Intern at Infosys

Jan-May 2017

Web Developer Summer Intern at Tnine Infotech

Jun -Jul 2016

ACADEMIC AND PERSONAL PROJECTS

YouTube Statistical Data Analysis [Python, Jupyter]: Analysis done on YouTube trending videos, and COVID-19 videos.

Jan-Apr 2020

- COVID-19 related data mining using YouTube Data v3 API
- Data Cleaning, Processing and Visualization using Apache Spark, Pandas, Matplotlib, Seaborn

https://github.com/karansingla06/YouTube-Trending-Videos-Analysis

Admin Controlled Chatbot using Chat [Python-Django, Bootstrap]: An admin controlled chatbot where admin can make any changes to the bot through chatting and interaction.

Sep-Dec 2019

- Used IBM Watson for named entity recognition to define the intents, entities, dialog flows
- Implemented REST API endpoints for the application
- Application Deployment using cloud Azure App service.
- https://github.com/karansingla06/Admin-Controlled-VISA-Chatbot

Multiple Characters Recognition with Tensorflow [Python, Jupyter]: Building a model to identify Canadian postal codes

Sep-Dec 2020

- Used EMNIST-ByClass dataset and built the neural network with Adam optimizer function
- Used OpenCV to preprocess, segment user image and identify the multiple characters
- https://github.com/karansingla06/Characters-Recognition-NeuralNetworks-Tensorflow

Improving Computer Vision accuracy using CNN [personal][Python, Jupyter]:

Feb 2020

- Used multiple data sources like Fashionist dataset, computer generated & real world images
- https://github.com/karansingla06/ML-AI-Projects/tree/master/ComputerVision

Credit card fraud detection, Spam Detection [personal][Python, Jupyter]:

Award for Performance Execution Mindset at UST Global

Jan-Feb 2020

- Used Kaggle credit card fraud and spambase dataset respectively
- Used Scikit-learn SVM, Naive Bayes classifiers and got accuracy of 96% and 91% respectively
- Followed the best practices of data cleaning, data exploration, feature selection, model selection, optimizing classifiers, hyper-parameters tuning, model evaluation
- https://github.com/karansingla06/ML-AI-Projects/tree/master/MLProjects

CERTIFICATIONS AND COURSES

•	"Applied Machine Learning in Python" - Coursera	Apr 2020
•	"Applied Text Mining in Python" - Coursera	Apr 2020
•	"Applied Plotting, Charting & Data Representation" - Coursera	Mar 2020
•	"Introduction to TensorFlow for AI, ML & DL" - Coursera	Feb 2020
•	"Spark for Machine Learning & AI" - LinkedIn Learning	Feb 2020
•	"Building React and Django Apps" - LinkedIn Learning	Jan 2020
•	"Natural Language Processing with Python for Machine Learning" - LinkedIn	May 2018
•	Microsoft Certified Solutions Associate (MCSA) - Cloud Azure	Nov 2017

ACHIEVEMENTS & COMMUNITY INVOLVEMENT

•	Specialization in Applied Data Science with Python from UoMichigan through Coursera		
	https://github.com/karansingla06/Applied-Data-Science-Specialization-Coursera	May 2020	
•	Graduate Student Representative for School of Computer Science at UoWindsor	Present	
•	Participation in Code To Win nation-wide competition at UoWindsor	Oct 2019	
•	Graduate Student Society (GSS) and Indian Students Association (ISA) volunteer	Sep 2019	

• Volunteer in raising funds for Kerala flood victims at UST and raised \$10000 Dec 2018

Apr 2019