

Karan Singla

Date of birth: 27/06/1995

Current Location: Kerala, India

Mobile: +91 9873299044

Email ID: karansingla.06@gmail.com

Github: github.com/karansingla06

Objective

I'm a machine learning and artificial intelligence enthusiast, seeking an opportunity to join an institution which will help me learn, expand my knowledge and lead me to become a subject matter expert.

Work Experience

- Senior software developer at UST Global *March 2018 - Present*
- Systems engineer at Infosys Ltd. *July 2017 – March 2018*
- Final semester project as an intern at Infosys Ltd. *January 2017- May 2017*
- Web developer intern at Tnine Infotech *June 2016 - July 2016*

Education

- Undergraduate Degree, Bachelor of Technology (B.Tech in Computer Science) from **Jaypee Institute of Information Technology (JIIT)**, Noida (India) with a **7.9 CGPA or 79%** in 2017 without any backlogs
- Higher Secondary School Certificate (12th grade) from Satluj Public School, Sirsa (Haryana, India) affiliated to CBSE with **90.2%** in 2013
- Secondary School Certificate (10th grade) from Satluj Public School, Sirsa (Haryana, India) affiliated to CBSE with a **10.0 CGPA** in 2011

Projects

- Intelligent Computing Environment (ICE):** UST's machine learning and artificial intelligence platform. *UST Global*
 - Working on ICE Named Entity Recognition
 - Identification, design and implementation of the new features for the next releases
 - Integration of mitie, crf, spacy, corenlp models for default and custom entity recognition, involving tagging, training, predicting, pos tagging etc
 - Using Python framework Falcon with mongo db to create all the RESTful services, in an Agile-scrum environment
- Anthem Virtual Assistant (POC):** A chat-bot for the healthcare giant Anthem to answer user queries regarding insurance plan & coverage details. *UST Global*
 - Parsing pdf documents to html for benefits/coverage details extraction in a structured format
 - Used Rasa natural language understanding (NLU) to extract intents and entities
 - Used Rasa Core for writing stories, training the dialog model, creating actions based on intents
 - Used python framework Anaconda with mongoddb, in an Agile-scrum environment
- Credit card fraud detection:** A self-learning project for exploring machine learning.
 - Used Kaggle credit card fraud dataset, support vector machine as the classifier
 - Achieved a 96% accuracy after data pre-processing, data visualization, training dataset balancing
 - Implemented in python on Jupyter-notebook
- Spam detection:** A self-learning project for exploring machine learning.
 - Used Kaggle spambase dataset, Multinomial and Gaussian Naïve Bayes as the classifier
 - Achieved 88% accuracy for Multinomial and 81% accuracy for Gaussian
 - Implemented in Python using Jupyter-notebook
- Cloud Azure Migration:** Migration of downstream applications from SharePoint 2010 on premise to SharePoint 2013 cloud Azure *Infosys*

- Used powershell scripts for web app creation, database migration
 - Checking Nintex workflows
 - Handled complete cycle for PlatformCI application in Development, UAT, SIT, Production environment
6. **CrypChat:** A bot to answer queries with respect to weather. *Infosys*
 - Implemented Vignere, RSA, Transposition algorithms for encryption
 - Trained the model for different entities like location, time with intent to either greet or ask weather
 - Used Python, Rasa stack, in an Agile-scrum environment
 7. **Recommendation for gray-sheep users:** Recommendation for those users who do not have any similarity with the other users. *JIIT*
 - Read various research papers to gather knowledge about gray-sheep users
 - Used Collaborative filtering techniques to recommend movies efficiently to gray-sheep users
 - Found correlation , level of similarity with other users using python numpy, scipy
 - Used python libraries like numpy, scipy, matplotlib
 8. **Weekend getaway:** A website to book movies, hotels and order food. *JIIT*
 - Implemented CRUD operations for movies part
 - Implemented the add to cart feature
 - Used php framework laravel with mysql db
 9. **Employee Surveillance System:** A system which could track activities of the connected systems within the same network using socket programming. *JIIT*
 - Implemented admin feature for remote shutdown and close applications on employees systems
 - Implemented feature to take screenshots after specific interval of time and send to admin using pyscreenshot
 - Implemented chat portal with the connected systems
 - Used Python language
 10. Implemented cryptography encryption algorithms RSA, AES, RC4 in Python *JIIT*

Technical Knowledge

- **Cloud Services :** Microsoft Azure
- **Languages :** Python, C++, JavaScript, Html/Css
- **Frameworks:** Falcon, Mitie, Spacy, Git, Rasa Stack, Keycloak, Beautiful Soup, Nltk, Scikit-learn, Pandas, Numpy, Putty, Postman, Mkdocs, Matplotlib
- **Databases:** Mongo, MySQL
- **OS :** Windows, Linux

Achievements and Activities

- Earned Microsoft MCSA badge(Microsoft Certified Solutions Associate) on Acclaim
- Cleared Microsoft exams 532 and 533 in first attempt
- Earned a certificate for completion of course Natural Language Processing with Python for Machine Learning on LinkedIn Learning
- Earned certificates for completion of courses “Understanding Machine Learning with Python” and “Getting started with Natural Language Processing with Python” on Pluralsight
- Student Branch member of Institute of Electrical and Electronics Engineers (IEEE)
- Organized events for blind children with NGO Saksham
- Won gold medal in volleyball Fun Sports Meet competition at JIIT
- District topper in 10th grade and class topper in 12th grade
- Head boy and house captain during school

Hobbies

- Football, Volleyball
- Traveling, exploring