

SURUCHI GUPTA

Aiming to shape the future through Artificial Intelligence and Data Analytics

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Galway, Ireland

SUMMARY

Data-driven Machine Learning Engineer, proficient in Java and Python with a problem-solving mindset, analytical approach to tasks and strong knowledge of the financial domain

EXPERIENCE

Research Intern

Data Science Institute

11/2019 - 08/2020 Galway, Ireland

DSI undertakes high-impact research in Data Analytics and Machine Learning.

- Worked on Naïve to apply Semantic Textual Similarity and Structural Constraint Optimization for automatic linking of dictionaries
- Identifies the links between the words using bag-of-words model with WordNet Embeddings and Support Vector Machine (SVM) model
- Developed REST services in Java / Spring Boot to handle data in JSON, XML and RDF formats

Senior Software Engineer

Investnet | Yodlee

03/2018 - 08/2019 Bangalore, India

- Managed the architectural changes, migration strategy for Open Banking and PSD2 employing JWT tokens and Microservices for the top UK and US banks with zero escalations
- Enhanced the customer experience by training a chatbot for an interactive ticket lodging system using seq2seq model

Software Engineer

Investnet | Yodlee

08/2016 - 03/2018 Bangalore, India

- Coordinated upgrade of ~50 scripts for performance improvement to reduce the overall cost of the Australian region by 56% using JSoup
- Reduced response time for customer issues by developing an internal tool that retrieves history and summary for the reported issue adopting machine learning techniques and generates a Splunk report to track timely fixes

Associate Software Engineer

Investnet | Yodlee

07/2015 - 08/2016 Bangalore, India

- Responsible for feature development, troubleshooting escalations and bug fixes for Yodlee Money using Java/ Spring Boot, JUnit, SQL, Bugzilla, Perforce
- Envisioned and improved the data model and data validation framework relying on the experiences from the client issues

EDUCATION

M.Sc. in Artificial Intelligence

National University of Ireland, Galway

09/2019 - 09/2020 Galway, Ireland

- Machine Learning, Natural Language Processing, Large Scale Data Analytics, Deep Learning, Artificial Intelligence & Ethics, Reinforcement Learning

Grade

1.1 / 1.1

FIND ME ONLINE



LinkedIn

www.linkedin.com/in/suruchidgupta



GitHub

www.github.com/suruchidgupta



Twitter

www.twitter.com/suruchidgupta

SKILLS

DEVELOPMENT

Java

Spring MVC

Microservices

Git

Docker

REST

JWT Security

Gradle

Agile

Postman

Splunk

Oracle

PostgreSQL

JDBC

SQL

MACHINE LEARNING

Python

R

NumPy

Jupyter

TensorFlow

Keras

Pandas

Scikit-learn

Tableau

Apache Spark

Apache Jena

OpenCV

Data Analytics

POWER SKILLS

Problem solving

Learning Potential

Critical thinking

Teamwork

Flexibility

Time management

Emotional intelligence

Leadership

Work Under Pressure

EDUCATION

PGC in Data Science

International Institute of Information Technology

09/2018 - 03/2019 Bangalore, India

- Python for Data Science, Advanced SQL, Data Visualization, Exploratory Data Analytics, Predictive Analytics

Grade

1.1 / 1.1

B.E. in Computer Science and Engineering

Shri Ramdeobaba College of Engineering and Management

08/2011 - 05/2015 Nagpur, India

- Machine Learning, Data Warehousing & Data Mining, Distributed & Parallel databases, Web Intelligence & Big Data, Language Processors
- Data Structures, Object-Oriented Programming, Database Management Systems and Design & Analysis of Algorithms

CGPA

8.39 / 10

ACADEMIC PROJECTS

Identification of Universal Challenges in Visual Perception for Autonomous Vehicles

github.com/Suruchid Gupta/UniversalAdversarialChallenges-AutonomousVehicles

- Created a dataset of hand collected, real-life scenarios that can potentially mislead autonomous vehicles
- Tested the image scenarios against the existing state-of-the-art models (YOLO, Faster R-CNN and DeepLab) and evaluated the performance of the models to identify the situations that can risk transportation safety
- Tools & Tech: Python, Jupyter, TensorFlow, OpenCV, PIL, NumPy, pandas

Neural Machine Translator

github.com/Suruchid Gupta/NeuralMachineTranslator

- Formalised a Machine Translation System using Encoder-Decoder RNN with attention
- Tools & Tech: Jupyter, TensorFlow, Keras, scikit-learn, GloVe embeddings, NLTK

Real-time Distributed Pipeline

- Constructed a Microservices Pipeline to derive insights for NYC Taxi drivers using Yellow Taxi Trip Records
- Tools & Tech: Java, Parallel event processing, JMS, ActiveMQ, Producer-Consumer model

Feedforward Neural Network

github.com/Suruchid Gupta/FeedForwardNeuralNetwork

- Implemented Neural Network with one hidden layer in Python to perform Image Classification on CIFAR data
- Tools & Tech: Python, NumPy, pickle, He Initialization, L2-Regularization

Computer Vision Pipeline

github.com/Suruchid Gupta/ComputerVisionPipeline

- Created a pipeline using Deep Learning techniques for Video Analytics and Object Detection
- Performed Object detection using pre-trained TinyYOLO model and employed Transfer Learning to fine-tune MobileNet model for attribute classification
- Tools & Tech: Python, TensorFlow, Keras, Matplotlib, Multi-threading

STRENGTHS



Constant learner

I love to build up, advance and strengthen my knowledge. Keeping pace by actively learning new skills and sharing knowledge.



Dedicated team player

I strongly believe that there is nothing more powerful than a group of hardworking passionate people with a common goal.



Communication

Clear objectives, good communication, and timely feedback are the key to success.

PASSIONS



Singing

Learned to listen and be part of the team.



Travelling

Nature + Adventure + Memories = taught me to cherish small things in life



Volunteering

Helping others leads to my personal development and happiness.

LANGUAGES

English

Upper intermediate



Hindi

Upper Intermediate



CREATING IMPACT



Teaching Assistant at NUI Galway

Assisted Professors with sessions for Object-Oriented Programming, Data Structures & Algorithms and Software Engineering



Employee of the Quarter

Awarded Employee of the Quarter - Data Analytics and Engineering in Q2-2018



Presidential Award for Volunteering

NUI Galway in 04/2020