RISHABH JAIN - Graduate Student NUIG, MSc. Data Analytics

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Work status: No immediate visa/immigration support required. Eligible for the 1G stamp (third level graduate stamp) valid up to 2022.

PROFILE:

Skilled data analyst. Currently pursuing a master's in data analytics at NUIG. Confident in communicating and circulating information. Effective in dealing with problems and coming up with creative solutions. Organized and timely in managing the work. Leadership experience with excellent networking quality. Looking to earn tenure within the domain of Data Analytics.

TECHNICAL SKILLS:

- Languages: SQL, R, Python 2.7/3.6, C, C++, C#, Advanced Java Tools, HTML, CSS, Javascript.
- BI: MS Excel, Jupyter Notebook, Tableau, Salesforce,.
- Databases/ETL/Integration: MySQL, SQL Server, Oracle, Spark, MongoDB.
- Analytical techniques: Regression, Classification, Clustering, Forecasting, Neural Networks, PCA, SVM, CNN.
- Machine Learning Libraries: Pandas, NumPy, SciPy, Sklearn, Seaborn, Tensorflow, Keras, pyTorch, Matplotlib, ggplot2, tidyr, dplyr , OpenCV, Docker, Kubernetes, dlib, face_recognition
- Cloud: AWS, Google Cloud Platform, Microsoft Azure
- Software's: RStudio, Anaconda, Pycharm, Spyder, Jupyter, Netbeans, Eclipse, Visual Studio, Unity, VMware

SOFT SKILLS:

- Teamwork: Gained teamwork experience by working in groups for various projects in masters and bachelor's education and also by working in a team as a software development intern at Momentum software.
- Communication: Excellent communication skills developed through teaching, mentoring, and volunteering. And by giving presentations during masters and bachelor's education.
- Leadership: Working at NGOs, teaching, and volunteering through Rotaract and AIESEC has led me to achieve excellent leadership qualities.
- Research: Completing numerous projects in a master's degree and various courses on Coursera has led me to have enhanced critical, computer and research skills.
- Problem Solving: Built ability to solve problems by taking an analytical and systematic approach, demonstrated through various technical projects, creations, hackathons, Kaggle competitions, and online courses.
- Languages: Full professional proficiency in English, native/bilingual proficiency in Hindi, and conversational proficiency in Spanish.

PROJECTS:

Toolkit for extracting snippets from video based on analysis of video, audio and subtitles – Currently Working

- Face identification and recognition based on the analysis of video data with corresponding audio and subtitles.
- Creating dataset using this toolkit to be trained in a GAN network for future work.
- Technologies used: Python, Tensorflow, Keras, CNN, dlib, face_recognition, openface, pyannote-video, OpenCV.

Handwriting Prediction GUI using MNIST Dataset and Deep Learning

- Tool to recognize digits present in the image using a deep learning convolution neural network.
- Technologies used: Python, Tensorflow, Keras, MNIST dataset, CNN.

Sentiment Analysis using Deep Learning in Python

- Identification/Recognition of sentiments (Positive/Negative/Neutral) in natural language using Recurrent Neural Network with Long short term memory.
- Technologies used: Python, Tensorflow, Keras, RNN, Numpy, Pandas, LSTM.

Document Scanner App using OpenCV and Python

- Reads in documents for scanning as images and converts them into a readable format in a top-down view.
- Technologies used: Python, OpenCV, skimage, imutils.

WORK EXPERIENCE:

JAN 2020 – PRESENT, *Teaching Assistant and Marker***, National University of Ireland, Galway, Ireland.**

- Lab Assistant for the course: Object-Oriented Software Design and Development, Object-Oriented Programming II, and, Computer Network and Data Communications.
- Responsible for teaching lab work to students, solving their queries, and evaluating assignments and exams.
- Teaching languages include Java, JSON, SQL, XML, Linux, Terminal, Script, Shell, and C#.

APR 2018 – JUL 2018, *Data Engineer Trainee***, Enbake Consulting, New Delhi, India.**

- Engineered middleware of an application that geocodes addresses using Python.
- Technologies include NodeJS, Python API's and Google Cloud platform.
- Implementing Data Mining and Data Modelling techniques for pre-processing data.
- Developed networking and communication skills by working in a cross-functional team.

DEC 2016 – JAN 2017, *English Language Teacher,* **Resala Charity Association, Cairo, Egypt**

- Four weeks long internship in Egypt to promote UN sustainable development goals.
- Initiated, facilitated, and moderated classroom discussions and prepared course materials such as syllabus and homework assignments for the students at Resala Charity Association.
- Built strong networking skills by working with interns from all over the world.
- Developed leadership qualities by teaching and mentoring children at Resala Charity Association.

EDUCATIONAL QUALIFICATION:

- **SEP 2019 – AUG 2020,** *MSc Data Analytics***, National University of Ireland, Galway (Expected 1.1 Honors)**

Modules**:** Machine Learning, Deep Learning, Natural Language Processing, Applied Regression, Data Visualization, Case Studies in Data Analytics, Information Retrieval, Programming in Data Analytics (includes R and Python).

- **JUN 2015 – MAY 2019, B. Tech** *in Computer Science with specialization in Bio-informatics***, Vellore Institute of Technology, Tamil Nadu (CGPA: 8.73 equivalent to 1.1 Honors)**

Modules: Data structures and algorithm, Database Management System, Web Mining, Image Processing, Data Mining with R, Software Design and Development, Object Oriented Programming with C#, Python, Network and Communication, Internet and Web Programming, Internet of Things, and Content Based Image and Video Retrieval.

CERTIFICATIONS:

- AI for Medical Diagnosis – Coursera | Deeplearning.ai | May 2020
- Introduction to Cyber Security Specialization – Coursera | New York University | May 2019
- Machine Learning with TensorFlow on GCP Specialization-Coursera | Google Cloud | June 2018
- Python for Everybody Specialization – Coursera | University of Michigan | May 2018
- Deep Learning Specialization – Coursera | Deeplearning.ai | April 2018
- Technology Training with projects TCS: Core JAVA | Tata Consultancy Services | June 2017

PUBLICATIONS:

1. Rajaseskaran, Rajkumar & Jain, Rishabh & M., Sruthi. (2020). Patient Health Monitoring System and Detection of Atrial Fibrillation, Fall, and Air Pollutants Using IoT Technologies. DOI: 10.4018/978-1-7998-1090-2.ch010.

HOBBIES:

- Photography, reading books, playing football, and bike riding.
- Volunteering – Macnas Halloween Parade, Galway 2020, Rotaract, AIESEC.

REFERENCES:

Dr. Michael Schukat, Dr. rer. nat., Dipl. Inf.   Prof. Umair ul Hassan

Programme Director, M.Sc. in Artificial Intelligence   Research Fellow & Adjunct Lecturer

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(Additional references on request)