**Vivek Kumar**

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**Summary:**

* Rich experience in deploying end-to-end machine learning projects and delivering actionable business insights.
* Proficient in data science technologies like python, R, SQL and shell scripting.
* Guide Infosys teams and Fortune 100 company on the forefronts of AI technologies.

**Key projects:**

1. **Feedback Sentiment Analysis** *Pandas, NLTK, TextBlob, Flask, Seaborn, Tableau*
   1. Outlined improvement areas of Infosys’s 40 training courses from 8 years of trainees’ feedback data.
   2. Built and deployed the Vader sentiment model along with the presentation of insights to track leads.
   3. Impact: Courses’ review teams to improve upon weak areas. Reformed feedback questions for next trainee batch.
2. **Automated Essay Scoring** *Dask, NLTK, Matplotlib, Scikit-Learn*
   1. Designed an automated essay scoring solution for Infosys learning platform – Wingspan.
   2. Generated 15 features from essays to build a multiple linear regression model with a performance of **92.03%**.
   3. Impact: Deployed solution relieved the need of manual labor for essay scoring.
3. **Automated Machine Learning Certification** *R, Git, noVNC, HTML/CSS*
   1. Established an automated machine learning certification for Infosys assessment platform.
   2. Developed 4 machine learning problems, solutions and test-cases in R. Populated containers to deploy dockers.
   3. Impact: Introduced internal machine learning certification in Infosys.
4. **Course Ranking System** *[On-going]*
   1. Designing a system to rank courses for new trainees based upon past trainees’ performance on allocated courses.
   2. Future Impact: To establish high propensity towards course tracks and remove existing random mapping system.
5. **Others**
   1. Gauss Hackathon: Forecasted number of sales for 110 brands using SARIMA model. Tuned hyperparameters using Bayesian optimization. *Python, Pandas, Statsmodels*
   2. Multi-Terrain Swarm Robotics System: Prototyped a swarm system to captured depth of a land/water terrain using particle swarm optimization. Presented in CICT, 2018. To be available on IEEE Xplore. *AVR, C, MATLAB*
   3. One shape fits all: Designing a model to automate digital mannequin dressing using GANs. *[On-going]*

**Experience:**

**Systems Engineer – Infosys Ltd** June 2017 – Present

1. Provide analytical and predictive modelling solutions with actionable insights to clients based on their business needs.
2. Develop internal artifacts around data science and machine learning techniques.

**Training and Education**

Systems Engineer Trainee, Infosys Ltd, **82%** December 2016 – May 2017

Research Intern, University of Delhi, **91.9%** January 2016 – June 2017

Bachelor of Technology with Honors, **80.37%** | ECE, DIT, Uttarakhand Technical University 2016

Intermediate/+2, CBSE, **92.40%** 2012

Matriculation, CBSE, **9.8/10** 2010

**Concepts and Skills**

**ML and DL concepts:** Regression, classification, clustering, ensemble methods, regularization, CNN, RNN and GAN.

**Technologies and tools**: Python3, R, MATLAB, Oracle SQL, Linux, Git, MS Office.

**Major libraries**: Numba, Numpy, Pandas, Seaborn, Scikit-Learn, NLTK, Tensorflow, Keras, ggplot2, rvest.

**Accolades and Interests**

1. Recognized with an **Insta** award by Infosys for valuable consultation provided to its client, Goldman Sachs.
2. Appreciated by delivery manager **twice** by exceeding expectation on assigned projects.
3. Active on data science platforms and conferences like Kaggle, Github, RedHat’s DevConf and Intel’s AI DevCon.