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.
- Consultant to Fortune 100 companies on the forefronts of AI technologies.

Key projects:

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

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.