

# Vivek Kumar

## Systems Engineer, Infosys Ltd

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### Summary:

I hold 1.7+ years of experience in deploying end-to-end machine learning projects using Python (intermediate in R) and leading various small teams. Recognized with an Insta award by Infosys for valuable consultation provided to its client, Goldman Sachs.

### Experience:

#### Infosys Ltd

June 2017 – Present

##### Responsibilities

1. Provides AI consultation to Infosys data analytics teams as well as Infosys clients.
2. Lead 5 teams of M. Tech/M.Sc. fresh hires on their final training projects namely credit risk rating, renewable energy economics, demographic survey exploration, market basket analysis and retail sales forecasting.

##### Projects

1. Presently, building a mapping model of new Infosys trainees to various technical streams.  
Impact: To reduce churn rate (a confidential percent of employee turnover due to randomly mapped streams)
2. Analyzed sentiments of trainees' feedback data per stream of past 10 years. Technologies: Pandas, NLTK, Tableau.  
Impact: Delivered improvement areas (programming, database, testing and coding standards) to respective streams for further action. Reformed feedback questions for next trainee batch.
3. Automated essay scoring written by trainees, with work ranging from feature generation to model selection. Resultant model achieved a performance of **86%**. Technologies: Python, Pandas, NLTK, Scikit-learn.  
Impact: Model is deployed along with Infosys essay scoring service provider's model to compare their preciseness.
4. Deployed an automated platform to verify machine learning solutions for Infosys internal ML certification. Created new ML questions, their test-cases and dockerization. Technologies: R, Git, Docker, Linux, HTML/CSS  
Impact: Automated platform yielded **3.4%** rise of more employees signing up for certification during July – Sep, 2018.

### Training

Trainee – Infosys Ltd

Dec 2016 – May 2017

Research intern – University of Delhi

Jan 2016 – June 2016

### Education

Bachelor of Technology with Honors, **80.37%** | Electronics and Communication Engineering, DIT, UTU

2016

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

2012

Matriculation, CBSE, **9.8/10**

2010

### Personal projects

1. Infosys Gauss Hackathon: Sales forecasting of 110 brands using ARIMAX followed with Bayesian optimization.
2. Minors: WhatsApp group chat analyzer, call history analyzer, e-retail websites web-scraper & LinkedIn Dashboard.

### Skills

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

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

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

### Interests

1. Maintains a public github repository to share my work on AI related technologies.
2. Invest time understanding Kaggle kernels written by grandmasters and masters.
3. Attending AI related conferences. Recently attended RedHat's DevConf and Intel's AI DevCon.