

Vivek Kumar

kumar.vivek@acm.org | +91-7417828768 | <https://aivic.github.io> | Pune, India

— — — * — * — * — — —

Work Experience

Systems Engineer – Infosys Limited

December 2016 – Present

- Provides professional guidance and services to internal units based on AI project requirements.
- Provided week-long data science consultation using python to the audit team of Goldman Sachs, Bangalore on-site.
- Presently, mentoring 3 juniors and also preparing artifacts to travel for a project in Infosys, Australia.

Consultant – Pluralsight (Remote)

December 2018 – Present

- Blueprint reviewer of AI courses written in python.
- Construct objective questions on python tools and packages related to data analysis and machine learning.

Key projects

1. **Feedback Sentiment Analysis, Infosys Ltd** *Pandas, Hive, NLTK, TextBlob, Seaborn, Tableau*
 - Outlined improvement areas of company's 40 training courses from 8 years of trainees' feedback data.
 - Built and deployed a sentiment analysis model along with the presentation of insights to track leads.
2. **Automated Essay Scoring, Infosys Ltd** *Dask, NLTK, Matplotlib, Scikit-Learn*
 - Designed an automated essay scoring solution for Infosys learning platform – Wingspan.
 - Constructed 15 features and compared various regression models to arrive at a tuned model performance of **92.03%**.
3. **Automated Certification Platform, Infosys Ltd** *R, Git, noVNC, HTML/CSS*
 - Established an automated machine learning certification for Infosys Assessment Platform (IAP).
 - Developed 4 machine learning problems, workflows and test-cases in R. Further, populated containers for Docker.
4. **Multi-Terrain Swarm Robotics System, University of Delhi** *AVR, C, MATLAB*
 - Prototyped a swarm system to capture depth of land and water terrains using particle swarm optimization algorithm. Presented the paper in CICT, 2018 and available on [IEEE Xplore](#).
5. **Pet Projects** *Data Analysis, Data Visualization, Machine Learning, Deep learning*
 - Developed [tutorials](#) from scratch without any plagiarism on Python, R, SQL and discrete mathematics.
 - [11 major case studies](#) – NYC Taxi demand prediction (Kaggle) | Microsoft malware detection (Kaggle) | Facebook friend recommendation using graph mining | Netflix movie recommendation system | Amazon fashion discovery engine | Quora question pair similarity system | Stack Overflow tag predictor | Human activity recognition | AI generated music | Self-driving car | Personalized cancer diagnosis.

Skills and Courses

Primary skill: Python3 – NumPy, Pandas (**expert**), Matplotlib, Seaborn, Scikit-Learn, NLTK (**NLP**), Keras (**deep learning**)
Complementary skills: R, Oracle SQL, Apache Hive, Tableau, Linux, Git, MS Office.
Soft skills: Storytelling, Team player, Mentoring, Public speaking, Excellent in English communication.
Courses: Probability and Statistics, Linear Algebra, Advanced Machine Learning, Deep learning, Time Series Analysis, Exploratory Data Analysis, Data Visualization, Natural Language Processing.

Education

- B. Tech. with Honors in ECE from DIT, UTU, **80.37%** (2016)
- Research Intern – University of Delhi, **91.9%** (2016)
- Intermediate/+2, CBSE, **92.40%** (2012)
- Matriculation, CBSE, **9.8/10** (2010)

Accolades and Interests

- Infosys Ltd – Recognized with an [Insta](#) award for valuable consultation provided to its client, Goldman Sachs.
- Infosys Ltd – Received a token of appreciation **twice** for delivering valuable performance on the assigned projects.
- Interests – [Stack Overflow](#) (Established User; ranked 197, top 0.18% during December 2nd-8th, 2018), [GitHub](#) (Workspace), [Kaggle](#) (Contributor), [Medium](#) (Blog Contributor, special mention by Applied AI course), [PyData-Mysore](#) (Co-Organizer, first meetup sponsored by Google), [LinkedIn](#) (Branding), Volunteer (DataHack Summit – 2018) and also active in conferences.