

Technical Skills:

Advanced Python (Numpy, Pandas, Scikit), MATLAB, SQL Programming, Jupyter Notebooks, LaTeX, Deep Learning.
Intermediate Git, Jira, Confluence, Regular Expressions, Predictive Models, Recommender Systems, Regression Analysis.
Basic Java, TensorFlow, Cucumber Tests, Spark, Docker, Groovy, Jenkins, Raspberry Pi.

Work Experience:

Systems Engineer – Birdi & Associates, Inc., Pasadena, CA

Jan. 2018 – Present

- Creating statistical methods to analyze datasets and generate data analysis reports for a California government-based project.
- Developing complex systems that require knowledge of schematic design, product design, electrical architectural models and prototype testing.

Engineering Intern – Birdi & Associates, Inc., Pasadena, CA

Oct. 2017 – Jan. 2018

- Project Coordinator for a Los Angeles government-based project. Planning design, technical review, data migration, implementation and deployment for new operating system with User Acceptance Testing (UAT).
- Working with departmental managers to outline specific data needs for each business method analysis and create data models that depict trends in the customer base as a whole.
- Designing a security system used for gate access control at LAX that integrates two security cameras, openALPR, document scanner, badge scanner and pin entry, into one system and gathered requirements to deploy it wirelessly.

Development Intern – Datical, Austin, TX

Jun. 2017 – Sep. 2017

- Researching platform specific grammar for DB2, SQL Server, Oracle, PostgreSQL, and PL/SQL.
- Writing drool files (Business Rules Engine) and technical documentation for specific rules requested by Fortune 500 clients.
- Using Datical DB to deploy the SQL scripts to various RDBMS platforms using Git for version control and Jenkins for deployments in an Agile environment.
- Writing SQL scripts and Regular Expressions in Java, automating Datical DB using Ruby/Cucumber, and deploying the automation created to AWS instances.

Research and Development Intern – Shalimar Hardware, Mumbai

May 2015 – Aug. 2015

- Data and statistical analysis for clients in Python using tools such as Excel, NumPy and Pandas.

Education:

Master of Engineering, Electrical Engineering – University of Cincinnati, GPA: 3.67/4.00

Dec. 2017

Bachelor of Technology, Electronics and Telecommunication – NMIMS University, First Class Hon.

Aug. 2016

Diploma, Entrepreneurship Management – Welingkar Institute of Management Development & Research

Jan. 2014

Projects:

Design of Neural Network – Implemented back-propagation algorithm with feed-forward mechanism and built a neural network to learn and grow with its weights auto-updated with every epoch using MNIST dataset.

Cryptocurrency Market Analysis – Studying the market cap, comparing bitcoin to other currencies, and measuring volatility in cryptocurrencies using Pandas and Matplotlib.

Music Taste Prediction – Performed an analysis of the recommender system algorithms, studied supervised learning and deep learning, discretized Million Song Dataset (MSD) to be able to efficiently obtain results using Python.

Data Science Python Projects – Various implementations of algorithms such as Decision Trees, Multivariate Regression, Naïve Bayes, K Fold Cross Validation, etc., using Python3 libraries like Pandas, Keras, Matplotlib, TensorFlow, etc.

Awards and Certifications:

- Certification in **Advanced Google Analytics**
- Certification in **Complete Python Bootcamp**
- Certification in **Core Java**
- Received **University Graduate Scholarship** at UC
- Infosys Graduate Training in **SQL, Java, HTML**

Leadership, Volunteer, and Other Experience:

- **Test Center Administrator** – University of Cincinnati
- **Community Service** – Ahimsa
- **Treasurer** – Model United Nations Society
- **Embedded Systems Intern** – ThinkLabs IIT Bombay
- **Associate Collaborator** – HackerX Cincinnati
- **President** – IETE, Student Chapter
- **Head of Department** – IEEE, Student Chapter
- **Content Writer** – Housing.com