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# Utsav Shah

[GitHub](#)  
[LinkedIn](#)  
[Portfolio](#)

## Technical Skills:

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Advanced	Python, MATLAB/Simulink, SQL Programming, MSSQL, DB2, Oracle SQL Developer, LaTeX, NumPy, Pandas.
Intermediate	Java, Git, CMD, Jira, Cucumber Tests, Jupyter Notebooks, Regular Expressions, Pelican, SciKit.
Basic	Groovy, HTML, RubyMine, Jenkins, Raspberry Pi, R, Tableau.

## Work Experience:

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

Oct. 2017 – Present

- Using statistical methods to analyze and munge large datasets, and generate data analysis reports on the ‘Waiting Area Display’ project at Security Badge Office - Los Angeles World Airports.
- 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.
- Researching on unsupervised deep learning techniques and how machine learning and artificial intelligence can solve business problems.
- Designing a security system used for gate access control at LAX that interfaces 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 client specific rules.
- 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.

### Summer Intern – Enviro Analysts and Engineers, Mumbai

Apr. 2016 – Jul. 2016

- Environmental Impact Assessment on clientele data to provide economically feasible solutions and data wrangling with SQL.

### Research and Development Intern – Shalimar Hardware, Mumbai

May 2015 – Jul. 2015

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

## Projects:

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

**Titanic Data Analysis** – Survival prediction of passengers using Random Forest Classification and Linear Discrimination Analysis. Wrangled and visualized data using descriptive statistics, NumPy, and Pandas.

**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.

## Education:

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

Expected 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

## Awards and Certifications:

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| • Certification in <b>Core Java</b>                   | • Certification in <b>Complete Python Bootcamp</b>      |
| • Infosys Graduate Training in <b>SQL, Java, HTML</b> | • Received <b>University Graduate Scholarship</b> at UC |

## Leadership, Volunteer, and Other Experience:

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| • <b>Test Center Administrator</b> – University of Cincinnati | • <b>Treasurer</b> – Model United Nations Society |
| • <b>Associate Collaborator</b> – HackerX Cincinnati          | • <b>Community Service</b> – Ahimsa               |
| • <b>President</b> – IETE                                     | • <b>Head of Department</b> – IEEE                |
| • <b>Embedded Systems Intern</b> – ThinkLabs IIT Bombay       | • <b>Content Writer</b> – Housing.com             |