Bhavesh Wadhwani

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Portfolio | **LinkedIn** | **Github**

CAREER OBJECTIVE

Results-oriented **Data Scientist** with **2+ years** of experience and a proven knowledge of **Computer Vision**, Natural Language Processing (**NLP**), **Machine-learning**, **Deep Learning**, real time data, and IT strategy. I aim to utilize my skills to successfully fill the **Data Scientist** role at your company.

CAREER SUMMARY

- I am an AI enthusiast with 1.5years+ experience in Machine Learning, Deep Learning projects, Computer Vision.
- 2 years+ of experience working in database administration, web development and freelancing.
- Completed **Self - Driving Car Nanodegree** at UDACITY.
- Completed **Machine Learning** and **Deep Learning** course at AppliedAI Course.

PROFESSIONAL EXPERIENCE

INFOSYS, Pune, Maharashtra

Systems Engineer, Dec 2017 - Jun 2019

- Certified from Infosys for **Python**, SQL, DBA, **Machine Learning, Deep Learning**.
- As part of **Infosys NIA OPS-Analytics** team we targeted to improve performance and create high business value and we successfully reduced manual work to 60% by atomizing solutions.
- **Cleaned and Analyzed text data** using **Python, NLP techniques, ML Algorithms**.
- We could **improve performance of servers by 8% and reduce critical alerts by 10%** by using previous event alert log details.

EVENTBEEP ENTERTAINMENT LLP, Pune, Maharashtra

Web Developer, Jun 2017 - Dec 2017

About Product : Ticketing platform for college and universities.

- Worked as **Full stack developer** using technologies like **Php, codeignitor framework**, javascript, html, css, bootstrap.
- I was **Leading a group** of 5 developers interns.
- Notable work I had contributed in product were Integrating payment gateways to website, SMS and Email - integration for ticketing platform, built dynamic display for events .Website link: https://eventbeep.com/.

SKILLS

- **Programming Languages**: Python, PHP, JavaScript, C, C++.
- **Tools**: Jupyter Notebook, Github, Image Analysis tools, Microsoft Office.
- **Databases**: MS-SQL, MySQL, SQLite, Mongo DB.
- **Libraries**: Pandas, Numpy, Scikit-learn, Tensorflow, Keras, OpenCV, Dask, Matplotlib, Scipy.
- **Machine Learning Algorithms**: Linear Regression, KNN, Naive Bayes, Logistic Regression, SGD, SVM, Decision Tree, Random Forest, GBDT, XGBoost, SVD, PCA, K-Means Clustering, MLP, CNN, LSTM.

PROJECTS

TAXI DEMAND PREDICTION (GitHub)

- **Problem Type**: Time-Series Data, Regression.
- **Models Used:** K-Means, Random Forest, XGBoost.
- **Problem Statement**: Predict number of Taxi required for a given location and for a given time. Detailed Write up Link.

STACKOVERFLOW TAG PREDICTOR (GitHub)

- **Problem Type**: Multi-Label classification.
- **Models Used:** Logistic Regression, Linear SVM.
- **Problem Statement**: Suggest tags based on the content present in the question posted on stackoverflow.. Detailed Write up Link.

HUMAN ACTIVITY DETECTION (GitHub)

- **Problem Type**: Multi-Class classification.
- **Models Used:** ML Approach (Logistic Regression, Linear SVC, RBF-SVM classifier, Decision-Tree, Random Forest, GBDT), DL Approach (LSTM, CNN).
- **Problem Statement**: Classifying the physical activities performed by a user based on accelerometer and gyroscope sensor data collected by a smartphone in the user's pocket.Detailed Write up Link.

ADVANCED LANE LINES (GitHub)

- **Problem Type**: Computer-Vision.
- **Techniques Used**:Camera Calibration, Distortion Correction, Color transforms, Gradients transforms, Perspective transform, Detect lane lines and boundary, curvature, Annotate video output.
- **Problem Statement**: Design a software pipeline that detects the lane lines in images. Annotate the video input. Detailed description in this link . Here's a link to my video result for this project.

SELF DRIVING CAR BEHAVIORAL CLONING (GitHub)

- **Problem Type**: Computer-Vision, Deep Learning.
- **Pipeline Steps Followed**:
  - Used the simulator to collect data of good driving behaviour from human input.
  - Designed, trained and validated a model that predicts a steering angle from image data.
  - Used the model to drive the vehicle autonomously around the first track in the simulator. The vehicle should remain on the road for an entire loop around the track.
  - Summarized the results with a written report.
  - Used 3 dashboard camera's captured images per frame at 30 fps to generate video output.
- **Problem Statement**: Cloning Human behavior for self-driving car on simulator track. End to End driving model. Detailed description in this link .
- **Final output video** is captured using simulator. Link: Output Video.

COURSES AND CERTIFICATES

- Python, MSSQL-DBA and RDBMS, Certification Exam – Infosys **Secured 90%**
- Certified on Machine Learning, Deep Learning, Infosys
- Self-Driving Car Nanodegree, UDACITY
- Machine Learning & Deep Learning, Applied AI Course

EDUCATION

MIT COLLEGE OF ENGINEERING
Pune, Maharashtra
Bachelor of Engineering (B.E.) Information Technology (Jun 2013-Jun 2017)

- **Relevant Coursework:** Algorithms, Data Structures, Operating Systems, Systems Programming, Machine Learning, Internet of Things. In Third and fourth year completed 2 Major and 2 minor projects on Machine Learning, Web Development.

JAI HIND HIGH SCHOOL AND JUNIOR COLLEGE
Pune, Maharashtra
High School Diploma (May 2013)

- **Relevant Coursework:** Science, Math
- **Awards & Honors:** Science Fair Finalist