

## Tony Basil

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*Data Science Enthusiast targeting assignments in Data Science and Machine Learning with an organization of repute*

### PROFILE SUMMARY

- A data-oriented professional with **over 3 years** of experience in **Software Engineering** and a zeal to make a winning career in **Machine Learning & Data Science**
- Excellent understanding of machine learning techniques and algorithms, such as k-NN, Naive Bayes, SVM and Artificial Neural Networks
- Familiar with common data science tool kits like R, NumPy, MatLab & so on
- Exposure in developing, refining & scaling data management and analytics procedures, systems, best practices & other issues
- Knowledge of the Software Development Life Cycle (SDLC) and worked on various Life Cycles like Waterfall, Iterative, V-Model, Agile (Scrum) Models
- Possess applied statistics skills like distributions, statistical testing and regression
- Focused and goal-driven with combination of technical knowledge, logical thinking to find the right solutions and excellent scripting & programming skills

### KNOWLEDGE PURVIEW

~ Optimization, Simulation & Statistical Modelling

~ Functional and Performance Automation

~ Web Application Development

~ Testing and Deployment

~ Machine Learning

~ Regression Testing

~ Data Science

~ Data Mining

~ Ad-hoc Analysis

### DISSERTATIONS/THESIS IN MACHINE LEARNING

**Title:** Development of Machine Learning Algorithm for Automated Classification of Heartbeats using ECG Signals by using various Machine Learning Techniques for Early Detection of Heartbeat Irregularities

**Location:** IIT, Hyderabad

**Duration:** 3 years

#### Key Result Areas

- Improved existing machine learning techniques for accurate detection of irregular heartbeats
- Performed Artificial Neural Network based algorithm with special emphasis on clinical adoption
- Significant reduction in false positive rate in comparison to state of the art techniques
- Worked in an environment requiring low computational and energy due to low dimensional feature vectors

#### Highlight

- Successfully published my own following research papers:
  - Tony Basil, Bollepalli S. Chandra, and Choudur Lakshminarayan, A Comparison of Statistical Machine Learning Methods in Heartbeat Detection and Classification, Lecture Notes in Computer Science Volume 7678
  - Tony Basil, Choudur Lakshminarayan, and C. Krishna Mohan, Detection of Classes of Heart Arrhythmias based on Heartbeat Morphology Patterns, SIAM 2nd International Workshop on Analytics for Cyber-Physical Systems, 2013
  - Tony Basil and Choudur Lakshminarayan, Automatic Classification of Heartbeats, European Signal Processing Conference (EUSIPCO), 2014

### RELEVANT COURSE WORK

- [Nanodegree Program in Artificial Intelligence](#) by [Udacity](#) (Feb, 2017 – Ongoing)
- Streaming Analytics and Pattern Analysis, IIT Hyderabad
- Neural Networks, IIT Hyderabad
- Predictive Analytics and Knowledge Discovery, IIT Hyderabad

## ORGANIZATIONAL EXPERIENCE

**MakeMyTrip, Bangalore**  
**Senior QA Engineer 1**

**(Nov'16 –Present)**

### Key Result Areas:

- Planning and execution of API Testing (REST) with subsequent test automation
- Selection of automation framework and approach to be used across various teams

### Highlights:

- Successfully analysed software bugs, provided follow ups and interacted with the developers on getting the problems fixed, verified by API Automation and closed the bugs as they got resolved

**eClinic247, Bangalore**

**(May'16 –Oct'16)**

**Senior Software Development Engineer in Test (SDET)**

### Key Result Areas:

- Acting as an In-charge for automation of test cases for Web Application and Android Application using Selenium and Appium Frameworks respectively; certifying the builds for production as the Lead Quality Engineer; defining the product specifications
- Executing the performance tests and verifying whether the results are meeting the baseline requirements
- Reproducing some of the issues identified in the production and analysing the root cause of the same
- Skilled in planning and implementing new processes, procedures and tools for quality assurance testing, defect tracking, status reporting and problem resolution within Agile, Waterfall as well as Hybrid methodologies.

### Highlights:

- Created test plan strategies to ensure risk mitigation was minimal during the testing lifecycle
- Worked closely with all developers to ensure that all severity 1 and severity 2 defects were resolved prior to GA

**PayPal, Chennai**  
**Software Engineer**

**(Jul'13 –Dec'15)**

### Key Result Areas:

- Defined the requirements of PayPal In-house Dispute Management System
- Managed Java RESTful API automation and end-to-end testing; implemented RESTful web services
- Developed Java automation code for RESTful Service API's using data driven approach, which was later used extensively for automating all test cases involving REST API and for PayPal Dispute Management System, with extensive use of UI automation
- Implemented end-to-end test cases for PayPal Dispute Management System
- Communicated with internal clients to determine specific requirements and expectations; managed client expectations as an indicator of quality; administered functional testing and regression testing of PayPal Dispute Management System
- Followed Agile Project Life Cycle Methodology to ensure that the project was delivered within the specified deadline
- Designed test set-ups and developed test code for testing functionality and performance of the systems
- Maintained bug status reports and drove to resolution including verification of fixes
- Worked with multiple technical environments and participated in product/tool selection

### Highlights:

- Gained knowledge of online payments industry and associated dispute management
- Configured, installed and troubleshooted various network devices and services
- Solved complex issues, remotely and in person

## ACADEMIC DETAILS

2013 M.Tech. in Computer Science from IIT Hyderabad with CGPA: 8.75

2010 B.Tech. in Computer Science from Mahatma Gandhi University, Kerala with 69%

## TECHNICAL SKILLS

- Proficient in MS Office (Word, Excel and PowerPoint) and Internet Applications
- In-depth knowledge of:
  - Languages: C, C++, Java, Node.js, HTML, PHP, JSON, XML, JavaScript, Matlab, R, Python, CSS
  - Software Tools: Matlab, Eclipse IDE, Adobe Dreamweaver
  - Frameworks: Selenium, TestNG, Appium
  - Database: MySQL, MongoDB

- Platforms: Linux, Microsoft Windows
- API: Open MPI, JAX-RS REST API, OpenCV, Elasticsearch

## PERSONAL DETAILS

Date of Birth: 9<sup>th</sup> January 1989  
Languages Known: English, Hindi and Malayalam  
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