

# Avinash Prabhakaran

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## EMPLOYMENT

**STANDARD CHARTERED GBS INDIA | 1 YEAR + (2016-17) | [Software Engineer / Analyst](#)**

Took ownership in organizing the teams and testing of specific Identity and Access Management (IAM) & Global Information Security (GIS) projects, which integrate business-critical applications to Oracle Identity Governance and SailPoint IdentityIQ, to automate user restrictions and prevent data leakage.

## PROJECTS

**GESTURE CONTROLLED WALL CLIMBING ROBOT | [Group Project | 2015-2016](#)**

This robot finds application in difficult and hazardous environments for reconnaissance, surveillance, etc. It was built using custom hardware with Arduino programmed by C++ used as its brain. I programmed the suction and driver motor to enable synchronized functioning and integrated Gesture control for a more interactive communication with the robot.

**VIRTUAL SELF DRIVING CAR | [2017](#)**

In this personal project, I developed an AI using Python & Keras which extracts the images from the cameras on the self-driving car and propagates it into a trained network of Convolutional and Fully Connected Neural Networks to compute the steering, which make to the car autonomous.

**POWERING AI TO PLAY DOOM IN OPENAI GYM | [2017](#)**

As part of the online course, Artificial Intelligence A-Z, I implemented a Deep Convolutional Q-learning Model aided by Experience Replay and Eligibility Trace using Python & PyTorch. The AI trains itself to beat the game by processing the game-play images

**WWW.PKBALAKRISHNAN.COM | [2016](#)**

Developed a responsive website using Bootstrap, HTML and CSS. For the back-end, PHP is used to interface with the MySQL database. The website gives a glimpse into the works of PK Balakrishnan, a well-known author and journalist of Kerala.

## EDUCATION

**GCSE | [Le Roquier School, Jersey, UK](#)**

Aug 2009 | Board: OCR & AQA | Percentage: 77%

**ADVANCED GCE | [Haultieu School, Jersey, UK](#)**

August 2011 | Board: OCR | Percentage: 78.83%

**B TECH - ELECTRICAL & ELECTRONICS | [FISAT, India](#)**

Jun 2016 | M G University | CGPA: 7.92

**MASTER OF DATA SCIENCE | [University of British Columbia](#)**

Ongoing | Graduation : June 2018

## ONLINE COURSES

**ARTIFICIAL INTELLIGENCE A-Z | [Udemy](#)**

**THE COMPLETE WEB DEVELOPER COURSE | [Udemy](#)**

## TECHNICAL SKILLS

### DATA SCIENCE & DATA VISUALIZATION

Python, R, NumPy, Pandas, dplyr, Matplotlib, Seaborn, Tableau, ggplot2

### DEEP LEARNING & MACHINE LEARNING

Scikit-learn, Tensorflow, Recommender Systems, Natural Language Processing, Image Processing, Supervised, Unsupervised and Reinforcement Learning algorithms.

### PROGRAMMING LANGUAGES

#### PROFICIENT:

Python, R, C, SQL, Shell,  $\LaTeX$

### WEB DEVELOPMENT

HTML5, CSS3, JavaScript, Bootstrap, jQuery, PHP, MySQL.

### EMBEDDED SYSTEMS

Microprocessor 8085, Microcontroller 8051, Arduino.

### OTHER TOOLS

GitHub, SailPoint Identity IQ, Oracle Identity Governance, Microsoft Sharepoint, AutoCAD Electrical, JIRA, Simulink

#### PRIOR EXPERIENCE:

C++, Java, JavaScript, Matlab

## REFERENCE

**SURYA SUSAN ALEX | [Prof, Federal Institute of Science & Technology](#)**

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