



## *Dr Arunkumar Athimoolam*

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### ***Professional Objective:***

An enthusiastic professional looking forward to providing definite solutions to solve critical business problems and an attitude of endless learning. Keen on playing an important and responsible role in an organization using the best of my skills and capabilities that challenges me to perform exceptionally.

### ***Profile Highlights:***

- **Freelance Trainer**, Unique System Skills LLC with experience in training USA students on SQL, JAVA, NodeJS, Web development, since Sept 2021 till date.
- Worked for the Department of Electronics and Communication Engineering, CEG, Anna University, India as a **Teaching Fellow**, from July 2019 to June 2022 specializing in Machine Learning/Artificial Intelligence.
- Worked as **Assistant Engineer** in MELSS and have developed Innovation Solutions for monitoring the continuity status of test fixtures for Turret Interface box ATE using NI DAQ cards, from Aug 2013 to May 2014
- Part-time Course Instructor for Center for Distance Education, Anna University and have guided 60 MCA students in Web/App development since August 2020.
- **6 years** of **research** experience in the Electronics and Communication Engineering as a protocol developer/Analyst for devices connected with bottle-neck bandwidth in a heterogeneous fashion.
- Full time Doctoral degree in **Doctorate of Philosophy** majoring in Information and Communication Engineering, Anna University, Chennai, India.
- Full time Post Graduate in **Master of Engineering** majoring in Communication Systems, Anna University, Chennai, India.
- Full time Under Graduate in **Bachelor of Engineering** majoring in Electronics and Communication Engineering, Anna University, Chennai, India.
- A candidate with a good blend of experience in **Leadership, Argumentativeness, Curiosity, Troubleshooting, Research** knowledge with **Quantitative Analytic skills** and strong Academic background with **Technical** skills ready to roll up sleeves for any forthcoming challenges.
- Delivered Guest lecture on Industrial Internet of things (**IIOT**) for students and faculty members.
- Microsoft certified online innovative tutor and **18 certifications** (ref LinkedIn page).
- Google **Data Analytics** and IBM **Data Science** Certification courses through Coursera

***Work Experience:***

1. *Teaching Fellow, Anna University, Chennai, 05/07/2019 - 28/06/2022 (03 years) Academic*
2. *Assistant Engineer, MELSS, Chennai, 14/08/2013 – 31/05/2014 (9 months 18days)*

***Industry******Technical Expertise:***

<b><i>Programming Languages</i></b>	Python, R, JAVA
<b><i>Database Knowledge</i></b>	SQL, MongoDB, Firebase
<b><i>Web Development</i></b>	MEAN stack with CRUD, HTML 5, CSS3, Angular, Bootstrap
<b><i>Web Framework</i></b>	Django, Streamlit, Web2py, Falcon, Flask, Kivy, R Shiny
<b><i>Deep Learning frameworks</i></b>	OpenCV, Sklearn, pandas, numpy, matplotlib, keras, TensorFlow
<b><i>Computer Vision tools</i></b>	Amazon Rekognition, Google cloud vision, Fritz, IBM Watson
<b><i>Machine Learning models</i></b>	Naive Bayes, Linear Regression, Random Forest, Decision Tree
<b><i>Testing</i></b>	A/B test, Z-test, T-test, RestAssured, Selenium, Cucumber, Postman, SOAP, Junit, API testing
<b><i>Visualization Tools</i></b>	Folium, Plotty, Dashboard building with advanced Excel, Data story Telling with PowerBi, Tableau, Google Analytics

***Education:***

- **Doctoral degree in Information and Communication Engineering**, 07/2014 – 02/2020, College of Engineering Guindy (CEG), Anna University, Chennai, India
- **Master's degree in Communication Systems**, 07/2011 – 06/2013, CEG, Anna University, Chennai, India
- **Bachelor's degree in Electronics and Communication Engineering**, 07/2007 – 05/2011, Sri Ramanujar Engineering College, Chennai, India

**DECLARATION**

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place:Chennai

(Dr.A.Arunkumar)



10 Courses

What Is Data Science?  
Tools for Data Science  
Data Science Methodology  
Python for Data Science, AI & Development  
Python Project for Data Science  
Databases and SQL for Data Science with Python  
Data Analysis with Python  
Data Visualization with Python  
Machine Learning with Python  
Applied Data Science Capstone




Nov 29, 2022

**ARUN KUMAR ATHIMOOLAM**

has successfully completed the online, non-credit Professional Certificate

## IBM Data Science

In this Professional Certificate, learners developed and honed hands-on skills in Data Science and Machine Learning. Learners started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process they completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate their knowledge and skills.

  
Rav Ahuja  
AI & Data Science  
Program Director  
IBM Skills Network

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:  
<https://coursera.org/verify/professional-cert/QBRLWY8P4ELC>



8 Courses

Foundations: Data, Data, Everywhere  
Ask Questions to Make Data-Driven Decisions  
Prepare Data for Exploration  
Process Data from Dirty to Clean  
Analyze Data to Answer Questions  
Share Data Through the Art of Visualization  
Data Analysis with R Programming  
Google Data Analytics Capstone: Complete a Case Study



Sep 27, 2022

**ARUN KUMAR ATHIMOOLAM**

has successfully completed the online, non-credit Professional Certificate

## Google Data Analytics

Those who earn the Google Data Analytics Professional Certificate have completed eight courses, developed by Google, that include hands-on, practice-based assessments and are designed to prepare them for introductory-level roles in Data Analytics. They are competent in tools and platforms including spreadsheets, SQL, Tableau, and R. They know how to prepare, process, analyze, and share data for thoughtful action.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:  
<https://coursera.org/verify/professional-cert/4BDU9XUT2DWC>





Reg.No. 1414419770/RG



*The Syndicate of the Anna University hereby makes known that*  
**ARUN KUMAR A** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2020. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".*

*Title of the Thesis:*

**ENHANCED NETWORK ASSISTED - MEDIA AWARE PROTOCOLS (ENA-MAP) FOR SCALABLE VIDEO MULTICASTING**



*Given under the Seal of the University*

Chennai 600 025  
India  
March 2021

Controller of Examinations

Registrar

Vice-Chancellor