

UMA SUBBIAH

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EDUCATION

Bachelor of Technology, Computer Science & Engineering
CGPA : 9.89/10 (till date) ; 1st rank / 380 students
Amrita School of Engineering, Amrita Vishwa Vidyapeetham
2016 – 2020 Coimbatore, India
Higher Sec. Education: 98.25% & Math-Science stream topper
Secondary Education: CGPA of 10/10 & School topper

EXPERIENCE

Student Lead
Developer Student Club by Google Developers
Jan '19 – Present (9 months) Amrita School of Engineering
• Current lead of the Developer Student Club (2019-2020) on my campus.

Undergraduate Student Researcher
Smart Spaces Lab, Amrita School of Engineering
Sept '17 – Present (2 years 1 month)
• Working in a lab funded by the Govt. of India's Dept. of Science and Technology on object detection using deep learning architecture.

Artificial Intelligence Intern
IIT Madras HTIC MedTech Incubator, Streben Healthcare
May '19 – July '19 (2 months) Chennai, India
• Developed a prototype for predicting the presence/absence of chronic kidney disease in patients, using case based reasoning in artificial intelligence.

Research Intern
Leeds Beckett University
Feb '18 – July '18 (6 months) Leeds, UK
• Research on 'Software Engineering Approach to Software Bug Prediction Models Using Machine Learning as a Service' – please see publications

Machine Learning Intern
Seyyone Software Solutions Pvt. Ltd.
Nov '17 – Jan '18 (2 months) Coimbatore, India
• Involved in various data science and machine/deep learning activities. Built a retrieval based chatbot w/ neural networks.

TEST SCORES

- GRE: 332/340 (170/170 Q, 162/170 V, 5.0/6.0 AWA) (2nd Dec '18)
- TOEFL iBT: 117/120 (30 R, 30 L, 28 S, 29 W) (11th May '19)

AWARDS AND HONORS

- GPA topper (9.89 / 10) out of 380 students of the CSE branch (till date).
- Successfully completed 'Hacktoberfest 2019', an open-source challenge
- Top 1%-National Industry Targeted Aptitude Test (All India Rank 65) (Apr '17)
- Multiple gold medals in SOF Olympiads & ASSET exams in school
- Academic Proficiency Award Winner throughout school.

CONFERENCES ATTENDED

India DSC Summit by Google Developers
Aug 2019 Goa, India

CERTIFICATIONS

- IBM's Data Science Specialization (August 2019)
- CodeChef Data Structures and Algorithms Foundation (July 2018)
- Machine Learning by Stanford University (May 2018)
- Android Basics Nanodegree by Udacity & Google (Jun '17 - Oct '17)
- NIIT's C++ Prog. (Jan '17 - May '17) 93% (Grade A)
- NIIT's C Prog. (Dec '16 - May '17) 90% (Grade A)

MEMBERSHIPS

- Developer Student Club run by Google Developers
- Computer Society of India (CSI)
- Amrita Center for Entrepreneurship (ACE)

PUBLICATIONS

Book Chapter
estimated date of publication. : late 2019/early 2020
• First author of the chapter 'Software Engg. Framework for Software Management Using Machine Learning Techniques w/ Azure', expansion of the paper below - in the book 'Software Engg. in the Era of Cloud Computing' accepted in July for publication by Springer. (http://bit.ly/SEEC_book)

Conference Proceedings
To be presented in Dec 2019 Trivandrum, India
• First author of the paper 'Soft Computing Approach to Determine Students' Level of Comprehension Using a Mamdani Fuzzy System', along with Dr. G Jeyakumar, to be presented-5th Intl. Symposium on Intelligent Systems Tech. & Applications (ISTA'19). Further to be published-'Advances in Intelligent Systems and Computing Series' by Springer, Germany.

Conference Proceedings
July 2018. Porto, Portugal
• First author of the paper 'Software Engineering Approach to Bug Prediction Models using Machine Learning as a Service (MLaaS)', along with Dr. Ramachandran and Dr. Mahmood presented-13th Intl. Conf. on Software Tech. (ICSOFT 2018), Portugal; SCITEPRESS publication; Thomson Reuters, SCOPUS, Semantic Scholar indexed. (http://bit.ly/uma_conf_proc)

PROJECTS

Analysis of Deep Learning Architecture for Low Contrast Images
June '19 – Present (4 months)
• Final year project - Applying neural networks to non-uniformly lit images.

Amrita Lab Management System
May '17 – June '17 (2 months)
• PHP backend of a University Lab Management System.

Coursework projects (on Github)
• **Software Engg.** – An event management portal; **Databases** – An employment portal; **Neural Networks** – A cancer classification algorithm | A Language Character Recognition System for Tamil - oldest lang. in the world; **Computational Intelligence** – Logic gates implementation with Neural Networks | Fuzzy Logic system to detect heart disease

SKILLS

Python, Machine & Deep learning, Pandas, Tensorflow, Keras, Data Science, Analysis & Visualisation, Java, GitHub

MS Azure ML Studio, SQL, R, Android

POSITIONS OF RESPONSIBILITY

During Undergrad studies
• As the lead of my campus' Developer Student Club, I have conducted the following events: The Ultimate Android Workshop (March '19), ML Hackathon 2019 (May '19), Web Frontier - A Web Development Workshop (July '19) and Cloud Study Jam (Sept '19)
• Event Manager for ML Marksman at techfest Anokha (Feb '19)
• Organiser & Speaker at Abraca data – a deep learning workshop (Dec '18)
• Evaluator & volunteer for ML Marksman competition, at Anokha (Feb '18)

During School
• Student Editor-Editorial Board, Head Girl, Vice Capt., Project Coordinator

VOLUNTEER EXPERIENCE

- Participant, Coimbatore Marathon-fundraiser for cancer patients ('17, '18)
- Volunteer, Namma Gramam for the Coimbatore Cancer Foundation (2014)
- Road Safety Patrol Cadet (2013-2014)

EXTRA-CURRICULAR ACTIVITIES

- Technical blog (thegoldencode.wordpress.com)
- Creative writing blog (thegoldenaurora.wordpress.com)
- I am an avid traveller and enjoy painting and recreational Karate.