

Personal Details

Mail: ggnair2000@gmail.com Mobile: (+971) 507823751 Location: Abu Dhabi, UAE

Nationality: Indian

Education

BSc Computer Science (Honours) Heriot Watt University 2018 to 2022

Graduated On: 05 July 2022

GPA: 4.0 / 4.0

Key Achievements

- ★ Received Watt Club Medal for the School of Mathematical and Computing Sciences. (Topmost award that Heriot-Watt can bestow on one student per school for exceptional academic performance).
- ★ Received Systems Consultants Ltd Prize for best student in a degree program in the Department of Computer Science.

12th Grade

St. Joseph's School, Abu Dhabi 83%, Physics School Topper Mathematics, Physics, Chemistry, Biology, English, French

10th Grade

St. Joseph's School, Abu Dhabi GPA 10 / 10. School Topper.

Languages

English (Full Professional Proficiency)
Malayalam (Native)
Hindi (Professional Proficiency)
French (Elementary Proficiency)

Online Certifications

Data Science (Harvard X), C ++, Java Pet Psychology, Acting.

Interests And Hobbies

- Meeting and working with people!
- Interviewer "Talking Tech, Women and Girls in ICT" by ITU, UN (2021)
- Attended AI Camp by UAE govt (2019)
- Performing and Fine Arts (University Drama Club member | performed for causes like breast cancer awareness in university
- Led groups of up to 25 colleagues to victory in high school talent shows, etc.
- Filmmaking and Editing (Conceived, created and presented 1st place winning short film at Teens Day UAE 2016, etc).
- Graphic design, animation, reading, roller blading, swimming.

Gayathri Girish Nair

Aspiring Tech Professional

Objective

To use skills acquired through 4 years at Heriot-Watt University's BSc. Honours Computer Science programme [2018-22] (Honours year specialization: Artificial Intelligence) – Accredited by the Royal Charter (UK), British Computer Society (BCS) and Chartered Institute for IT on behalf of the Engineering/Science Council - at the work front, for the benefit of hiring employer and society in the field of technology (Artificial Intelligence (AI) or Machine Learning (ML), Data Science, Software Development, Web Development, Product Management, Consulting, etc) [that, and to make acquaintances with + learn from lots of lovely people [6]].

Key Skill Set (Current skills based on course experience)

Soft Skills

- Communication, Collaboration, Teamwork, Adaptability, Leadership.
- Creativity, Time Management, Self-Motivation, Empathy.
- Ability/Desire to Learn.

Technical Skills

- AI/ML (ML Algorithms, Deep NN, CNN, NLP, etc), Data Science (Exploration, Handling, Analytics, Visualization), Python (PyTorch, TensorFlow, Numpy, Pandas, Scikit-Learn, OpenCV, PIL, etc), Jupyter Notebook, Git, GitHub, GitLab, Google Collaboratory, MSExcel.
- Java, C++, C, SQL, Maya, Blender, Unreal Engine 4, HTML, CSS, JS, D3.js, ReactJS, JQuery, WeBots Robot Simulator.
- Design patterns (like MVC), Object Oriented Programming, UML, ER diagrams, Database Schema Design, Project Management, Professional Writing.
- Google FireBase, MSWord, MS PowerPoint.
- Prolog, Ocaml, PDDL, Linux, OpenGL, Unity.

Final Year Project – Gaze Estimation (GE) using Machine Learning (ML)

Gaze Estimation (GE) using Machine Learning (ML) (individual research based technical project) which proposes a new variation of a deep CNN based ML model that predicts with loss < that of 2 existing state of the art models while working with the largest existing benchmark dataset for GE, GazeCapture, requiring skill with management of computing resources. The work also introduces a novel idea for input that led to superior model performance and documents 7 experiments conducted as part of the study.

Some Other Key Projects

- Forest cover data analysis/clustering/categorization ML models;
- Twitter sentiment analysis, Amazon food review classification (NLP) (class Kaggle competition 3rd place winner);
- Covid-19 (2019-21) and tennis racquet specifications data web-based dashboard development, data analysis, data story discovery and presentation;
- Designed and implemented Behaviour and Genetic Algorithm based controllers for intelligent automation of simulated e-puck robots on WeBots;
- Social media inspired photo sharing web app that catered to the needs of a real US based client (ReactJS, Firebase, etc);
- Interactive/Animated Diorama. (Maya, Unreal Engine 4, OpenGL, C++)
- Implemented Steganography using images in C;
- Designed and documented air traffic control system;
- Implemented improved version of existing poor website (full stack) (including design and implementation of database schema, MySQL);
- Implemented various data structures and algorithms in Java;
- Designed, tested low fidelity prototype of innovative pill dispensing robot as part of user experience testing.

LinkedIn: www.linkedin.com/in/gayathrigirishnair | Page 1 of 1