Gautham Pughazhendhi

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EDUCATION

Master of Data Science, Data Science, UNIVERSITY OF BRITISH COLUMBIA, **Current Overall Grade**: A+ — Sep 2021 — Jun 2022
Bachelor of Engineering, Computer Science and Engineering, ANNA UNIVERSITY, **CGPA**: 8.44/10 — Jun 2014 — Apr 2018

EXPERIENCE

- **Software Engineer, Sirius Computer Solutions Inc. (HQ: San Antonio)** — Jun 2018 — Jul 2021
  - Built a **contextual chatbot** for a popular US banking firm; **automated the firm's ticket/issue creation** for internal processes in Salesforce and ServiceNow, and **reduced the total budgeted cost of manpower**.
  - Implemented an **email classification model** for a leading global payments and technology company; **reduced the turnaround time** by removing the manual categorization of emails.
  - Implemented a **support ticket classification model** for a healthcare company; **reduced the workload** of support agents by optimal assignment of tickets.
  - Developed multiple **chatbots** to automate the mission-critical IT operations of an American multinational retail corporation; *automated the CI/CD pipeline using Azure DevOps and Azure Kubernetes Service*, **reducing the deployment time** of bots.
  - **Leaded an initiative** with senior AI consultants in enabling my colleagues to work on customer AI projects; **taught basic concepts in machine learning** and helped in designing the enablement plan.
  - Developed a **page speed evaluation product** using React.js to evaluate the performance of web pages by customizing **Google's Lighthouse CI** project; **reduced the page load times** of existing e-commerce customers.
  - Involved in the **backend API development** to submit, e-sign, process case documents for courts in a US state; **digitized the filing and submission process**, and *improved the user experience which led to winning a chatbot project*.
  - Built features for *OneSource*, a **testing automation framework** to enable cloud testing for web and mobile platforms; **reduced the procurement cost of test devices** by leveraging cloud-based solutions.
- **Software Engineer Intern, Sirius Computer Solutions Inc.** — Jan 2018 — Mar 2018
  - Developed web pages, controllers, and a security module to authenticate and authorize the users of the company for a **security and inventory management application**; **decreased the company's expenditure** on external applications.
- **Research Assistant, Velammal Engineering College** — Jan 2017 — Apr 2017
  - Worked on the design and development of a classroom response system as part of the **TIFAC-CORE research group** funded by **Cognizant Technology Solutions**; **improved the evaluation model** on students' understanding of concepts in my college.

MAJOR ACADEMIC PROJECTS

- **FOREST FIRE AREA PREDICTION:** Built a **regression model** using *Support Vector Regression(SVR)* to predict **forest fire areas** using meteorological and soil moisture data; **minimized mean absolute error(MAE) to 8.68 ha** with a limited dataset. — 2021
- **EARTHOSYS:** Developed an **ensemble model** using *Random Forests* to predict **tsunamis**. **Implemented an efficient search algorithm** on the **NASA** dataset to find the nearest coastal distance based on coordinates along with **NOAA**'s tsunami dataset. Developed a **web application**'s backend using Django, a **chatbot**, and an android app-controlled **alert device** using **Raspberry Pi**. — 2017 — 2018
- **CLASSROOM RESPONSE SYSTEM:** Created a **client module** for a Raspberry Pi based touch-enabled device using Python's PyQt4 and **improved client-server communication** by replacing HTTP with **Constrained Application Protocol (CoAP)**. — 2017

TECHNICAL SKILLS

Languages: Python, R, SQL, JavaScript, Java, CSS, HTML, Swift. **Frameworks:** Tensorflow, RASA, React, Flask, Django, Angular.
Libraries: Scikit-Learn, Pandas, NumPy, Matplotlib, Keras, SQLAlchemy, PyQt4. **Cloud Platforms:** Azure, AWS.
Tools: Jupyter, PyCharm, VS Code, RStudio, git, Docker, Android Studio, Xcode, Qt Designer.

HACKATHONS

- **HCL Commerce hackathon 2020**: Won the **Most Creative** award for implementing a smart voice assistant to shop on an e-commerce site and integrating it with **Google Assistant**.
- **FLEX 2.0, Codes and Gears 2020, a 36-hour Hackathon, Sirius Computer Solutions (Winners):** Built a prototype to convert sign language into words on-screen to help differently-abled with speech and hearing loss. **Demo**
- **FLEX, Codes and Gears 2019 (Winners):** Developed a prototype to detect bad postures, control smart home devices, and convert gestures into action words by estimating body poses to help people with disabilities. **Demo**

AWARDS

Feather in the cap 2019; ACE performer of the year 2018 (SIRIUS COMPUTER SOLUTIONS)
First place at **IEEE CS Project Expo; Third** place at **IEEE CS Coding Contest** (VELAMMAL ENGINEERING COLLEGE)