

**SUMMARY:**

With a strong foundation in computer science, I have focused on expanding my expertise in Artificial Intelligence (AI) and Big Data, areas that are at the forefront of technological advancement. My academic journey has equipped me with a robust understanding of algorithmic processes, data structures, and the theoretical underpinnings of machine learning and large-scale data management. This knowledge is complemented by hands-on experience in designing and implementing complex systems that efficiently process and analyze vast amounts of data. My ability to adapt and learn new technologies rapidly allows me to stay relevant and innovative in a fastevolving field. I am passionate about leveraging data and AI to solve real-world problems, aiming to make a tangible impact through my work.

**AREAS OF EXPERTISE:****Programming Languages:**

- **JavaScript:** Proficient in client-side scripting and web development.
- **Python:** Experienced in back-end development, data analysis, and machine learning with frameworks like Django and Flask.
- **C:** Solid understanding of low-level programming for performance optimization.
- **C++:** Proficient in developing performance-critical applications and system software.
- **SQL:** Skilled in database management and complex query formulation.
- **Swift :** Skilled in developing iOS and macOS applications with a focus on performance and user experience.

**Web Development:**

- **HTML & CSS:** Capable of crafting responsive and visually appealing web interfaces.
- **WordPress:** Experienced in developing and maintaining content-driven websites.

**Development Tools:**

- **IDEs & Editors:** Proficient with XCode, PyCharm, Sublime Text, Visual Studio Code, and Anaconda for various programming needs.
- **Version Control:** Experienced with Git for source code management.

**Data Analysis Tools:**

- **Tableau:** Skilled in creating impactful data visualizations and business intelligence insights.
- **Power BI:** Proficient in leveraging Microsoft Power BI for advanced data analytics and visualization solutions.

**Collaboration & Project Management:**

- **Slack & Asana:** Effective in team collaboration and project tracking in fast-paced environments.

**Operating Systems:**

- **Linux Variants:** Competent in using Ubuntu, Kali Linux, and RedHat for development and security tasks.
- **Cross-Platform Experience:** Proficient with MacOS and Windows for software development and daily operations.

**EXPERIENCE****Kaizen Python Internship****(Nov 2020 - Feb 2021)**

- Written reusable, testable and efficient code in python that meets the project needs • Integrated the data storage system to - analyze data, clean data, processing data.
- Created an integrated system to ensure that all systems work together in harmony to boost productivity and enhance the quality of day-to-day operations
- Integrated user-facing elements into applications
- Tools used: Web Scrapping, Automating Testing Python

**Cipher Schools Trainee (ML)****(May 2020- June 2020)**

- Involved in duties such as data preparation, model building and training, assessment, and optimization.
- Throughout the training, gain familiarity with a wide range of machine learning techniques and tools [Anaconda (Jupyter Notebook)]

- Worked on some real-world data sets - Stroke Prediction Dataset, Breast Cancer Wisconsin Dataset, Iris Dataset, Red Wine Dataset.

## PROJECTS:

- **Speech Emotion Recognition** (<https://github.com/icyboguyaman/SpeechEmotionRecogniton>) For my final bachelor's project, I developed a Pythonbased Speech Emotion Recognition app where I utilized machine learning techniques to classify emotions from audio recordings, offering users realtime emotional analysis. Python, HTML/CSS
- **Automated Text Generation** I created an automated text generation system using Python, employing natural language processing techniques to generate coherent and contextually relevant text based on user input or predefined prompts. Python
- **Bayshore Healthcare** New Clinic Location Finder For my AI course project at Georgian College, we collaborated with Bayshore Healthcare Clinic to develop a real client solution for finding optimal new locations using machine learning algorithms and geospatial analysis techniques. Python, Anaconda, Google Libraries
- **Mask R-CNN for Object Detection and Segmentation** ([https://github.com/icyboguyaman/Mask\\_RCNN](https://github.com/icyboguyaman/Mask_RCNN)) For my AI course project at Georgian College, we implemented Mask R-CNN for Object Detection and Segmentation, delivering advanced capabilities in computer vision beyond traditional methods, catering to various applications beyond the healthcare sector.

## Certifications:

- Microsoft Certified: Azure Fundamentals
- Google SEO - Google
- Data Science Orientation (Coursera - IBM)
- Applied Data Science with Python (Coursera - University of Michigan)
- Python for Everybody Specialization (Coursera - University of Michigan)
- Neural Networks and Deep Learning (Coursera - Deeplearning.ai)
- iOS App Development Basics (Coursera - University of Toronto)
- Introduction To Swift Programming (Coursera - University of Toronto) • Machine Learning (Coursera - Stanford)

## Consulting:

### HexVr [Startup]

(Jan 2023- Present)

- Manage the organization's data assets and oversee data quality, data architecture, and data integration.
- Stay up to date with emerging data technologies and industry trends and evaluate their potential impact on the organization.
- Develop and implement data strategies, policies, and standards for the organization.

## Volunteering:

### Aashayein a ray of hope (NGO) (Technical Manager)

(Aug 2019 - Present)

- Managing the IT Infrastructure, developing and maintaining the technology, policies and features and provided technical support to the staff.
- Ensuring the security and integrity of NGO's data.

### Aashayein a ray of hope (NGO) (Event Coordinator)

(Aug 2016 - Aug 2019)

- Involved and conducted event planning in collaboration with the community
- Conducted fundraising events, and awareness campaigns
- Coordinating with volunteers and managed budgets

## EDUCATIONAL QUALIFICATIONS:

### Big Data Solution Arch.

(Jan 2024 – Oct 2024)

Conestoga College, Kitchener, Ontario

### Artificial Intelligence - Architecture, Design, and Implementation

(Jan 2023 – Oct 2023)

Georgian College, Barrie, Ontario

### Bachelor of Technology, Computer Science

(Aug 2017 - Apr 2021)

Rajasthan Technical University (RTU), India

