

# Chinmaya Madhusudhan

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## Professional Summary

- Determined IT professional with expertise in **data analysis**, **database administration** and **software development**.
- Strong hands-on experience in **Python**, **SQL**, **Power BI**, **Tableau**, **HTML**, **JavaScript** and back-end technologies.
- Developed full-stack web applications using **Flask**, **PHP**, and **JavaScript**, ensuring responsive and scalable UI/UX.
- Experience in **cloud platforms** including **Microsoft Azure**, **GCP** (Google Cloud Platform) and **AWS** (Amazon Web Services), with familiarity in deploying apps and managing resources.
- **Authored** detailed **technical documentation**, standard operating procedures, and user guides to ensure continuity, scalability, and handover readiness.
- Proficient in **coursework** and hands-on experience in trending technologies, including Artificial Intelligence, Data Structures, Deep Learning, Distributed Computing with Big Data and Data Science & Pattern Recognition.
- Expertise in developing **projects** like **Neural Machine translation** from English to French (91% accuracy) and Airline Database Management System under acclaimed professors.

## Skills

Programming Languages	Python, C, C++, Java
Web Technologies	HTML, CSS, Javascript, ReactJS
Frameworks	Bootstrap, Flask, Django
Database Technologies	MySQL, MongoDB, Oracle
Cloud Technologies	Microsoft Azure, Google Cloud, Amazon Web Services
Version Control	Git, Github
Data Visualization	PowerBI, Tableau
Data Analysis	Open Refine, Trifacta, Numpy, Tensorflow, Pandas, Keras
Tools & IDE	VS Code, Pycharm, Eclipse, Anaconda

## EXPERIENCE

### Suvidha Foundation

#### Web Developer Intern

01/2022 to 06/2022

- Managed web development responsibilities using HTML, CSS, JavaScript, PHP, and SQL to deliver responsive, cross-browser-compatible web applications.
- Designed and implemented scalable database schema and wrote efficient SQL queries to support dynamic website content, ensuring optimized performance and secure data handling.
- Developed, designed, tested, and launched mission-focused landing pages tailored for fundraising campaigns, which contributed directly to lead generation and a measurable uptick in donor engagement.
- Created and maintained SEO-optimized websites, implementing best practices in meta-tagging, image compression, and site speed optimization, leading to a 25% increase in organic traffic.
- Generated detailed technical documentation for web applications, Application Programming Interface (APIs), and deployment procedures to streamline team on-boarding and ensure development continuity.

### SVNIT

#### Data Privacy Intern

01/2021 to 06/2021

- Developed a privacy-preserving framework for sequential data publishing using the anonymization technique L-diversity and the Mondrian splitting a partition method to mitigate privacy breaches in published datasets.
- Implemented various algorithms, processes and metrics to quantify and reduce privacy risks in sequential data publishing, particularly addressing the threat of incremental privacy breaches.
- Analyzed and cleaned large datasets with Python to create experimental setups to measure the impact of anonymization on data utility, privacy leakage, and adversarial re-identification risks.

- Applied the k-anonymity model across multiple data releases and evaluated its effectiveness using real-world datasets, maintaining 95% data utility, ensuring minimal data distortion and greatly efficient.
- Demonstrated that the technique is resilient (100%) to Incremental Privacy Breach when applied to anonymized datasets, based on experimental results ensuring robust data security for sequential data publishing.
- Authored and submitted detailed technical documentation and visual reports, showcasing comparative results of baseline techniques versus the proposed solution resulting to data security enhanced by 30%.

## **Education**

**Masters in Computer Science** | University of Dayton, Dayton, OH

**Bachelor of Technology in Computer Science** | S.V.National Institute of Technology, Surat

## **Certifications**

Autonomous Systems and Data Science