

# Anagha Viswanath

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## EDUCATION

**Santa Clara University**, Santa Clara, California

Sep 2022 – Jun 2024

Master of Science in Computer Science and Engineering

GPA: 3.62

**Relevant Coursework:** Design and Analysis of Algorithms, Machine Learning, Artificial Intelligence (AI), Advanced Operating Systems

**Nitte Meenakshi Institute of Technology**, Bangalore, Karnataka

Aug 2016 – Aug 2020

Bachelor of Engineering in Information Science and Engineering

GPA: 3.7

**Relevant Coursework:** Computer Networking, Data Structures, Object Oriented Programming(OOP), Database Systems, Software Engineering

## PROFESSIONAL EXPERIENCE

**Software Engineer, Wipro Technologies**

Sep 2020 – Aug 2022

SAP Hana, Microsoft SQL Server, SQL, Microsoft PowerBI

Bangalore, Karnataka

- Achieved a **90%** improvement in **data reliability** through efficient migration of on-premise data from Microsoft Excel to Azure SQL database using **SQL-based** solutions.
- Accomplished **95%** data accuracy through **ETL** solution design and implementation, extracting, transforming, and loading 100,000 employee records from **SAP Hana** to optimize **decision-making** and **operational efficiency**.
- Led collaborative design of **PowerBI** dashboards, increasing **data accessibility** by **30%** and empowering stakeholders with **real-time visualizations** and **actionable insights** for improved decision-making.
- Reduced 20% **debugging** issues and ensured smooth development of **BI dashboards** by developing efficient **SQL compliance** procedures.

## EDUCATIONAL EXPERIENCE

**Graduate Research Assistant, Frugal Innovation Hub**

May 2023 – Present

PHP, HTML/CSS, Javascript, MySQL, Stripe, CPanel, Solidity

Santa Clara, CA

- Led **end-to-end** development of a **full-stack e-commerce** website for a jewelry business using **PHP, HTML/CSS, JavaScript, and MySQL**.
- Implemented **Solidity Smart Contracts**, dedicating 5% of transactions to charities based on preset conditions.

## SKILLS

<b>Programming Languages:</b>	Python, Java, JavaScript, C, C++, PHP, HTML/CSS, React JS, Node JS, Express JS, JQuery, Flask
<b>Database Systems:</b>	MySQL, Oracle PLSQL, PostgreSQL, SAP HANA, Microsoft SQL Server
<b>Machine Learning Frameworks/Libraries:</b>	Tensorflow, Keras, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn
<b>Tools and Platforms:</b>	AWS EC2, Docker, Kubernetes, Postman, Git, PowerBI, Unix, Linux, Ubuntu

## PROJECTS

**HackForHumanity 2023 - GiveForGood**

Santa Clara University

ReactJS, Javascript, HTML5, CSS3, MySQL, Google Maps API, Python

- Enhanced full-stack proficiency by using ReactJS to craft captivating user interfaces coupled with robust authentication and security protocols using Python and OAuth.
- Mastered seamless integration of Google Maps APIs with JavaScript, enabling dynamic map displays and location pinning enhancing my understanding of real-time data visualizations and user interaction dynamics.

**E-Commerce: SMART Shopping Cart**

Santa Clara University

Amazon EC2, Apache, ESP32CAM, Python, Flask, REST, HTML5, CSS3, Javascript, Ajax

- Developed a scalable real-time shopping cart using ESP32 CAM to encrypt and securely transmit barcode images to a web server using RESTful APIs created in Flask and Python resulting in a user-friendly e-commerce experience.
- Improved user engagement on an IoT-based e-commerce website hosted on Amazon EC2 by developing dynamic and interactive user interfaces using JavaScript and Ajax.

**House Price Analysis**

Santa Clara University

Linear Regression, Numpy, Seaborn, Matplotlib, Python, Google Colab

- Employed machine learning methodologies and advanced data analysis techniques on practical datasets, leading to the development of a powerful linear regression model through data-driven decision-making strategies.
- Showcased expertise in statistical analysis and data visualization using Python, Numpy, Seaborn, and Matplotlib, achieving an exceptional  $R^2$  score of 0.78 and a precise root mean squared error (RMSE) of 0.17.

**Leukemia Detection Using Deep Learning**

Nitte Meenakshi Institute of Technology

Keras, Tensorflow, CNN, Python, Flask, REST, Javascript, HTML/CSS

- Advanced machine learning proficiency through building Convolutional Neural Networks (CNN) based image classification model using Keras, Tensorflow, and Python, achieving 91% training accuracy and 87% testing accuracy.
- Created user-centric interface design employing Flask, HTML/CSS and JavaScript prioritizing user experience while ensuring seamless interaction with machine learning model.
- Published research paper "[Detection of Leukemia Using Convolutional Neural Network](#)", featured in Springer 2021 and presented paper at the ERCICA Conference among 44 distinguished papers, showcasing impactful contributions to the field of Computer Science.