

Anagha Viswanath

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EDUCATION

Santa Clara University

Master of Science in Computer Science and Engineering

GPA: 3.62

Relevant Coursework: Design and Analysis of Algorithms, Database Systems, Artificial Intelligence, Web Development

Sept 2022 – June 2024

Santa Clara, California

Nitte Meenakshi Institute of Technology

Bachelor of Engineering in Information Science and Engineering

GPA: 3.7

Relevant Coursework: Object Oriented Programming in C++, Data Structures in C, Advanced Java, Python Programming, Software Engineering

Aug 2016 – Aug 2020

Bangalore, India

EXPERIENCE

Santa Clara University

Software Engineer Intern

- Leading end-to-end development of **e-commerce** website hosted on Stripe for a jewelry business making use of **PHP**, **HTML/CSS**, **JavaScript** and **MySQL** database to develop the full stack website.

May 2023 – Present

Santa Clara, CA

Wipro Technologies

Software Engineer

- Migrated on-premise data management processes from Microsoft Excel to Azure SQL database by scripting SQL procedures to transform data and perform calculations on data, resulting in improved **data reliability** by 90%.
- Scripted efficient **SQL procedures** to perform Extract, Transform, and Load (**ETL**) operations on a dataset of 100,000 employee records from **SAP Hana** for Wipro's crisis management team, leading to a significant improvement in **data accuracy** by 99%.
- Implemented optimizations in SQL compliance procedures, achieving a **compliance** rate of up to 95% and ensuring adherence to regulatory requirements.
- Designed visually engaging and interactive **PowerBI** dashboards, resulting in a 30% increase in data accessibility, enabling stakeholders to make informed decisions based on **real-time visualizations** and actionable insights.
- Enhanced SQL procedures for preprocessing large Excel datasets, resulting in a 95% boost in **data quality**, integrity, and reliability which facilitated a more robust and **insightful analysis**.

Sept 2020 – Aug 2022

Bangalore, India

SKILLS

Programming Languages:

Python, Java, JavaScript, C, C++

Web Technologies/Frameworks:

React JS, Node JS, Express JS, PHP, HTML, CSS, Bootstrap, JQuery, Flask, Spring Boot

Database Systems:

MySQL, PLSQL, Microsoft SQL, PostgreSQL, Oracle, SAP HANA, Microsoft SQL Server

Cloud Technologies:

AWS, Docker, Kubernetes

Machine Learning Frameworks/Libraries:

Tensorflow, Keras, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn

Other:

REST API, Postman, Git, PowerBI

PROJECTS

Leukemia Detection Using Deep Learning / Keras, Tensorflow, Python, Flask, Javascript

- Leveraged **Keras** with **Tensorflow** backend to develop a highly accurate image classification model for identifying Leukemia from white blood cell images achieving exceptional accuracy rates of **91%** for training and **87%** for testing.
- Implemented Convolutional Neural Network architecture (**LeNet 5** Architecture) to construct robust image classification model and employed advanced preprocessing techniques and image manipulation using **CV2** library to optimize model performance.
- Created an interactive and user-friendly UI with **Python's Flask** framework, **HTML**, **CSS**, and **JavaScript**, enabling seamless use of the image classification model's results.
- Published paper with Springer 2021 titled "**Detection of Leukemia Using Convolutional Neural Network**" which was selected as one of 44 papers presented in **ERCICA Conference**.

HackForHumanity2023 - GiveForGood / ReactJS, Javascript, HTML5, CSS3, MySQL, Google API, Python

- Developed a feature rich full-stack web application as part of a **team of 6** among 282 participants during hackathon.
- Leveraged **ReactJS** and **HTML5/CSS3** to implement a dynamic mapping feature that allowed users to locate and tag individual's locations on Google Maps, facilitating communication and support between NGOs and individuals in need.
- Integrated Google Maps API with **JavaScript** to display and pin locations on maps, and **Python** with Google Auth, and MySQL for authentication and location storage.

Live Public Transportation Information System: BART / PHP, HTML/CSS, REST API

- Engineered **Apache** web server to manage multiple domains and secured domains with SSL certificate.
- Devised PHP based **REST APIs** from XML data of BART API's and employed Google Maps APIs to display train routes, available timings and suggest alternative routes on a user-friendly website developed with **HTML5**, **CSS3** and Bootstrap.