

# SANJANA SIRNAM

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## EDUCATION

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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CGPA: 9.12/10)**

August 2018 - June 2022

*Bachelor of Engineering in Computer Science and Engineering*

**Relevant Coursework:** Data Structures, Database Management Systems, Operating Systems, Object-Oriented Programming, Design and Analysis of Algorithms, Artificial Intelligence, Machine Learning, Software Engineering, Blockchain Technology

## WORK EXPERIENCE

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**JPMORGAN CHASE & CO.**

July 2022 - Present

*Full Stack Developer*

- Developed Rest and Web services to build business logic as per client's requirements.
- Developed Angular components to design front-end of our application
- Worked effectively within collaborative teams and identified ways to improve the development process.

## INTERNSHIPS

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**JPMORGAN CHASE & CO.**

January 2022 - June 2022

*Software Engineer Program Intern*

- Implemented a software which automatically identifies the vulnerabilities present in an application and thereby reduced the manual effort required to resolve them by 6 hours per month.

**DELOITTE**

June 2021 - July 2021

*Tax Technology Intern*

- Built a web application for traffic prediction with ASP.NET
- Used Random forests, a machine learning model for predicting the volume of traffic and made use of bootstrap framework to design the user interface.

**COGNIBOT & NATIONAL INSTRUMENTS**

May 2020 - June 2020

*Intern*

- Trained on Artificial Intelligence, Machine Learning and Deep Learning algorithms
- Gained hands-on experience in using tools like Python, NumPy, Pandas, TensorFlow, OpenCV
- Learnt how to evaluate and validate models using appropriate metrics

## ENGINEERING PROJECTS

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**ECG SIGNAL CLASSIFICATION USING GENERATIVE ADVERSARIAL NETWORKS**

August 2021- June 2022

- Built a deep learning model called Generative Adversarial networks (GAN) using CNN's to generate fake ECG signals since the existing datasets were imbalanced.
- Fake signals from GAN and real data from MIT-BIH arrhythmia dataset were used for training the classification model.
- Compared performance of GAN with several other augmentation techniques such as SMOTE, ADASYN and random oversampling.

**FACIAL EXPRESSION RECOGNITION**

January 2021- May 2021

- Created a web application which categorizes the emotional expression depicted on facial image given as input using Convolutional neural networks

**TWITTER SENTIMENT ANALYSIS**

August 2020- December 2020

- Developed a web application that analyses the sentiment of the tweets extracted from twitter of a particular product or service.
- Categorized the sentiment into 3 kinds using Naïve Bayes classifier and visualized the output sentiment data graphically.

- A website developed to manage college events conducted by various clubs. This helps in tracking students who are interested or registered for a particular event.

**SKILLS**

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**PROGRAMMING:** C, Python, c#, SQL and Java

**WEB TECHNOLOGIES:** HTML, CSS and bootstrap

**FRAMEWORKS:** Django, flask, Spring-boot, Oracle SQL developer and asp.net core

**ACHIEVEMENTS**

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- Qualified to final round in ‘Code for Good’ hackathon conducted by JPMorgan Chase & Co to design applications for Social Organizations in India

**CERTIFICATIONS**

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- AWS Certified Developer Associate
- .NET 5 Web API & Entity Framework Crash Course

**EXTRACURRICULARS**

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**MEMBER OF PLACEMENT COMMITTEE AT CBIT**

- Coordinated with HR’s of various companies and planned the schedule for the campus recruitment process

**MEMBER OF CBIT OPEN SOURCE COMMUNITY**

- Hosted flagship event of the club “Design Freaks” as part of technical fest in the year 2021
- Organized and coordinated technical event “Mr/Ms Headstart” in 2019
- Volunteered a hackathon conducted in college in 2020

**MEMBER OF THE COMMUNICANDO CLUB, CBIT**

- Organised a workshop called Melange to emphasize on the importance of mental health as a part of cultural fest

**MEMBER OF FOOD AND BEVERAGES DEPARTMENT FOR MODEL UNITED NATIONS, CBIT**

- Was a part of Organising Committee of CBIT Model United Nations 2019 which was organised in collaboration with United Nations Information Centre for India and Bhutan

**MEMBER OF LEARNING & FUN WORKSTREAM, JPMORGAN CHASE & CO.**

- Responsible for on-boarding new joiners, provide them knowledge transfer sessions and conducting fun activities every month.

**MEMBER OF GOODWORKS COMMUNITY, JPMORGAN CHASE & CO.**

- Involved in several activities such as packing and collecting food items, distributing school kits to under-privileged communities and participating in tree sapling drives.