Sanaka Nadeesh

Indian Institute of Technology, Goa

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# Education

**BTech, Computer Science and Engineering**, Indian Institute of Technology Goa

**Class 12, APBIE**, Sri Chaitanya Educational Institutions, Vijayawada

CGPA: **5.75/10**

Aggregate: **87.2** %

2018 – 2022

2017 – 2018

**Experience**

**Data Science and Business Analytics Intern, The Sparks Foundation** [May 2022 – Jun 2022 ]

* Performed Exploratory Data analysis on various datasets( like ’Indian Premier League’ and ’Global Terrorism’)
* Built Machine learning models using Python
* TechStack : Python, Data Analysis, Machine learning, Sklearn, Seaborn, Matplotlib, Pandas

# Projects

**Employee Leave Management System** [Sept 2021 – May 2022]

* Developed a Web application for Leave Management, which can be used in either an organization or a college
* Features include automated acceptance and processing of leave applications, alerts, leave cancellation and automated approval of leave, with real time update of data in dashboards
* Tech Stack: Django, React, SQLite, Javascript, CSS, MaterialUI

**Parts of Speech Tagging using Hidden Markov Models** [March 2021 - April 2021]

* Performed Exploratory Data Analysis on the Wall Street Journal dataset to get insights from the data and find anomalies
* Built model that accurately predicts the parts of speech tag based on both the definition and context
* Used Hidden Markov model to perform Parts of Speech Tagging and achieved an accuracy of 95%
* Language: Python

**Human Activity Recognition** [Nov 2020 – Dec 2020]

* Preprocessed the videos to extract frames and split the dataset into training, testing and validation
* Extracted features from the training dataset
* Performed Human Activity Recognition using Time Distributed ResNet50, Time Distributed Flatten and LSTM
* Tech Stack : Neural Networks, Machine Learning (Python, TensorFlow)

**Automated Water Irrigation System** [Nov 2019 - Dec 2019]

* Engineered a device that detects the moisture content in the soil according to the crop selected and water content selected
* Used VHDL for programming, FGPA for making the circuit, and designed Finite State Machine
* Worked in a team of four and contributed to the electronic circuitry and coding part for the sensors
* Tech Stack: VHDL, Arduino

# Skills

**Computer Skills :** Python, C++

**Web Development Skills :** HTML, CSS, Material UI, SQL, Reactjs, MongoDB **Machine Learning :** Pandas, NumPy, Sklearn, Matplotlib **Computer Skills :** MS Word, MS Excel, Latex, AutoCAD **Electrical Software Skills :** VHDL, Arduino UNO

**Relevant Coursework :** Data Structures and Algorithms, Design and Analysis of Algorithms, Software Systems, Discrete Structures, Computer

Networks, Automata Theory, Digital Logic Design, Computer Architecture, Artificial Intelligence, Machine Learning, Operating Systems, Optimization, Computer Graphics

**Soft Skills :** Critical thinking, Problem-solving, Time management, Teamwork

# Positions of Responsibility

**Core member, Security Team** Was a core member of the organizing team of IIT Goa’s Cultural Fest, Cultrang **Campus Ambassador** Was selected as Campus Ambassador of Verzeo - IIT Goa **School People Leader** Was elected as a Head Boy and organized multiple events

# Achievements

* Was the captain of Volleyball team in Inter IIT
* Was selected for district level Kabaddi during my school days
* Represented IIT Goa for Badminton and Volleyball at SPREE, Sports Event of BITS Goa

# Extracurriculars & Hobbies

* Playing VolleyBall, TT, ,Badminton, BasketBall, Cricket, Kabaddi.
* Love Travelling and want to explore new places.
* Love to Play E-Sports with my friends