SOUNDARYA GANESH

Senior Undergraduate Student, PES University

Programming Languages: C, Python, R

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EDUCATION

PES University, Bangalore, India   **Aug 2018- Jun 2022 (expected)**

B.Tech. in Computer Science and Engineering. CGPA: 8.21/10

- Relevant Coursework: Data Structures & Algorithms, Database Systems, Software Engineering, Discrete Mathematics, Big Data, Data Analytics, Cloud Computing, Machine Intelligence, Computer Networks, Operating Systems, Data Science, Deep Learning, Algorithms for Intelligence Web and Information Retrieval
- Distinction Award- PES University- 2018-19 and 2019-2020.

EXPERIENCE

Teaching Assistant: Machine Intelligence course — PES University, Bangalore   **May 2021- Present**

- Working on creating course materials including course slides, concise notes, designing and evaluating coding assignments, and organizing quiz for over 620 students.

Data Science Intern- Mphasis NEXT Labs, Bangalore   **Jun 2021 - Aug 2021**

- Developed 2 AWS Marketplace Listings (1) to assist consumer finance companies to make lending decisions to mitigate potential loan defaults [link] (2) to detect Healthcare Fraud by building a Machine Learning solution in **Python**. [link]
- Built a BERT Based solution to perform Aspect-based sentiment analysis on e-commerce product reviews in Python
- Developed an Angular website for PACE-ML, an MLOps platform using flask as the backend framework.

Head of Information Design- PES Open Source, PES University, Bangalore   **Jan 2020 - Jan 2021**

- Responsible for designing and organizing workshops with over 140 students by coordinating with mentors and subject matter experts with a focus on providing an enriching learning experience.
- Conducted weekly knowledge exchange sessions/events (like Hacktoberfest) to promote Open Source culture.

AI Research Intern- UNX Life, Bangalore   **Mar 2020 - Sept 2020**

- Worked on a chatbot development project for people requiring counseling assistance.
- Developed a web app with a deep learning-based solution for index-based facial emotion recognition.
- Researched and implemented Generative Adversarial Networks (GANs) for facial image generation.

Teaching Assistant: Introduction to Data Science course — PES University, Bangalore   **Aug 2019- Dec 2019**

- Worked on creating course materials with concise notes, extra coding assignments (in Python and R), and conducting weekly review sessions for over 50 students.

Research Intern — NIT, Tiruchirappalli   **Jun 2019- Jul 2019**

- Pre-processing for an NLP task and Relation Extraction from documents, implemented in **Python**.
- Explored Protégé-Based Ontology Knowledge Representation (OWL method)

PROJECTS

ML & Deep Learning: Detection of onset of Parkinson's Disease (In progress)

- Developing a tool to detect the onset of Parkinson's Disease using multiple non-invasive biomarkers using Machine Learning and Deep Learning models implemented in Python.

Big Data & Computer Networks: Yet Another Centralized Scheduler

- Created a Python-based tool to manage the resources and simulate centralized scheduling policies in a distributed setting

ML & Data Analytics: Predicting Startup Success

- Performed Exploratory Data Analysis (EDA) on various factors of a few startups to observe the trend and patterns in the features, followed by Machine Learning models to predict the success rate of the startups in Python.

LEADERSHIP AND AWARDS

Best Campus Ambassador- Pravega 2020 at IISc Bangalore- Awarded by Techobytes for managing 170+ student registration for the workshop series by demonstrating leadership responsibilities and publicizing through a variety of channels.

2021 Code for Good Participant - JPMC- India- Selected as one of the 600 participants to participate in a nationwide hackathon alongside technology experts from JPMC to solve real-world problems for nonprofits.

Notable Mention- Decypher Hackathon-PES University, Bangalore- Ranked #4 out of 80+ teams for the prototype developed during a nationwide 48-hour virtual hackathon and received a CIE Student Startup Program Sponsorship.

SKILLS

Libraries: TensorFlow, NumPy, Pandas, scikit-learn, SciPy, NLTK, spaCy

Technologies & Frameworks: Hadoop, Apache Spark, HTML/CSS, MySQL, PostgreSQL, Git, Angular, Flask, Javascript, MapReduce

ADDITIONAL INFORMATION

Courses - Architecting with Google Compute Engine [Specialisation certificate], Machine Learning: Coursera: Andrew NG, Deep Learning and Computer Vision A-Z OpenCV, SSD & GANs: Udemy, Natural Language Processing: Datacamp

Hobbies & Interests - Singer, learning languages, playing guitar, yoga, art, chess (Zonal Level - School Games Federation of India), and writing