SOUNDARYA GANESH

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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

EXPERIENCE

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

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

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

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

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 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

Developed a tool to manage the resources and simulate centralized scheduling policies in a distributed setting. It was implemented in Python

ML & Data Analytics: Predicting Startup Success

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

SKILLS

Teaching, Leadership, Team Management, Machine Learning, Deep Learning, NLP, Computer Vision, Cloud Computing

Programming Languages: C, Python, R

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

POSITIONS OF RESPONSIBILITY

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

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

Class Representative — PES University, Bangalore   Aug 2019- May 2019

LEADERSHIP AND AWARDS

Head of Information Design- PES Open Source, PES University, Bangalore   Jan 2020 - Jan 2021
- Responsible for designing and conducting workshops with over 140 students by coordinating with mentors and subject matter experts to ensure quality content delivery.
- Conducted knowledge exchange sessions /events (like Hacktoberfest) to promote Opensource culture by organising weekly meetups

Best Campus Ambassador- Pravega 2020 at IISc Bangalore- Awarded by Techobytes for ensuring maximum student registration for workshop series by demonstrating leadership responsibilities and publicising through a variety of channels.

Notable Mention- Decypher Hackathon-PES University, Bangalore- Ranked #6 out of 80+ teams for the prototype developed during a 48-hour virtual hackathon.

CIE Student Startup Program Sponsorship Recipient- Received sponsorship from the Centre of Innovation and Entrepreneurship for proposing a post-covid solution.

Distinction Award- PES University- during 2018-19 and 2019-2020.

ADDITIONAL INFORMATION

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

Top 10 in Hashcode- Ranked as one of the top 10 teams among 600+ teams that participated in Hashcode 2020, A National Level Hackathon conducted by PES University.

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

Volunteered at World's Largest Lesson, AIESEC to teach high school students about Sustainable Development Goals(Aug'19)

Runner up at the Chess Competition at Campus Challenge, PES University (2019)

Winner in Zonal Level Chess Competition under School Games Federation of India.

Awarded with 0.1% Merit Certificate by Central Board of Secondary Education (CBSE), India in English in 12th standard and for all subjects in 10th Standard.

Runner up at National Level Karate Championship conducted by Ken-Bu-Kai Shito-Ryu Karate School Of India- 2012

Singer and a self-taught guitarist