Nanda H Krishna

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About

I am an Undergraduate Student of Computer Science and Engineering interested in Machine Learning, Computer Vision, Applied CS, and research in these fields.

Education

- **Sri Sivasubramaniya Nadar College of Engineering** — Chennai
  B.E. Computer Science and Engineering; Affiliated to Anna University; GPA: 9.47 (3 semesters) — *2017 – 2021*
- **Vidya Mandir Senior Secondary School** — Chennai
  High School: Computer Science; Class X 10 CGPA; Class XII 96.6% (483/500) — *2003 – 2017*

Experience

- **Solarillion Foundation** — Chennai
  Undergraduate Research Assistant — *Oct. 2018 - Present*
  - **Machine Learning Group**: Currently working on movie lifetime prediction based on transactional data from a top multiplex in Chennai. Previously worked on prediction of flight delay times based on historical flight performance data and weather data.

Skills

Machine Learning · Image Processing · OpenCV · C · C++ · Python · Java · Shell · MATLAB · Web and Android Development · Arduino · Raspberry Pi

Projects

- **Movie Lifetime Prediction (Jan. 2019 - Present)**: Working on predicting the lifetime of a movie based on transaction data from a top multiplex in Chennai.
- **Measurement of Wheel Distances and Angles from Stereo Images (Aug. 2018 - Present)**: An industrial project to measure the distance and angles of tilt of a wheel using images captured by stereo cameras, using OpenCV and C++.
- **GeoLifeCLEF 2019 (Mar. 2019 - May. 2019)**: Worked on species recommendation using Machine Learning based on location and environmental variables.
- **Flight Delay Prediction using Machine Learning (Nov. 2018 - Jan. 2019)**: Worked on a machine learning based approach to predict arrival and departure delay of flights based on historical flight performance data and weather data.
- **WhacAR (Dec. 2018)**: Developed an AR game for Android using Sceneform and ARCore, written in Kotlin. Won the top team award at MLH Local Hack Day 2018.
- **Pokemon Go on Arduino (Jul. 2018)**: Developed a simple version of Pokemon Go using Arduino and IMU sensor.
- **brOS - Suite of Applications (Oct. 2016 - Dec. 2016)**: A suite of applications coded in C++, developed for the Class 12 Computer Science Project. Contains 4 applications (Clock, Calendar, Calculator, Notepad) and 4 games, and a customisable UI. Won the Best Project in Computer Science Award.

Open Source Contributions

- **NetworkX**: Created a module for group centrality measures in graphs, fixed documentation errors, helped in maintenance, reviewed pull requests.
- **Pandas**: Helped in maintenance, removed specific handling for py.path.
- **DepHell**: Modified command implementations, added tests.
- **Prefect**: Standardised class repr for all classes, removed inconsistencies.
- **RxPY**: Improved version maintenance and control using bumpversion.

Publications

- **Species Recommendation using Machine Learning - GeoLifeCLEF 2019**: Working notes for GeoLifeCLEF 2019 to be published in CEUR-WS. 2019.

Courses and Certifications

- **Machine Learning**: Stanford University, Coursera
- **Python for Data Science**: UC San Diego, edX
- **Machine Learning Crash Course**: Google AI
- **Embedded Software Development**: Workshop at SSN College of Engineering
- **Blockchain and Hyperledger**: Workshop at SSN College of Engineering
- **University Courses**: Python Programming, C Programming, Mathematics - I and II, Discrete Mathematics, Probability and Queuing Theory, Data Structures, Object Oriented Programming, Design and Analysis of Algorithms, Digital Principles and System Design, Computer Architecture, Operating Systems, Database Management Systems

Teaching, Talks and Workshops

- **Computational Thinking Workshop (2018)**: Organized a workshop introducing first year students to various aspects of Computer Science (at SSN).

Achievements

- Merit Scholarship for Rank 1 in CSE Department for Semesters 1 & 2
- Winner, CodeStorm (Reverse Coding and Competitive Programming), CEG Abacus 2019
- Top team at MLH Local Hack Day 2018, Chennai
- ACM ICPC: 2017 Online Round Honorable Mention, 2018 KCG Chennai Provincial 5th Place
- Award for Consistent Performance in Computer Science in Class 11 & 12
- Award for Best Project in Computer Science in Class 12

Memberships

ACM - Student Member · IEEE - Student Member

Languages

English · Tamil · Hindi · Sanskrit · Japanese · Korean · German

Hobbies

Competitive Programming · Quizzing · Languages · Writing and Poetry · Theatre (Acting) · Music · Anime · Manga · Asian TV Shows

Last Updated: 26 May 2019