Aparna Krishnan

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Education

- **SSN College of Engineering** — Chennai
  Affl. Anna University; B.E in Computer Science and Engineering — *December 2017 - April 2021*
- **Sitadevi Garodia Hindu Vidyalaya M.H.S.S** — Chennai, India
  Computer Science; Tamil Nadu Higher Secondary Certificate); 97.25% (1167/1200) — *May 2015 - April 2017*

Programming Skills

- **Languages**: Java, JavaScript, Python, Dart, Typescript, Shell Scripting, SQL, HTML, CSS
- **Technologies and Frameworks**: Flutter Development, Git, Rasa - Open source conversational AI, Amazon Web Services, AngularJS, Android Development, TensorFlow, scikit-learn
- **Other Skills**: Data Structures and Algorithms, Machine Learning, Natural Language Processing

Experience

- **LeanKloud Solutions** — Chennai
  Software Engineer - Intern — *April 2020 - June 2020*
  - Worked on the client interface of the cloud optimization service. Introduced new features for easy tracking of asset usage for the clients.
  - Used AngularJS to resolve certain issues that the clients previously had with the interface, and also to program other features.
- **HashHackCode** — Chennai
  Special Needs Mentor - Intern — *Nov 2019 - Dec 2019*
  - An immersive programming tutoring internship. Worked as an HTML/CSS programming tutor for teens and adults with special needs.
  - Was responsible for one-on-one tutoring sessions and also for developing the special IDE used by the institution for coaching the students
- **LyfeNet Solutions** — Chennai
  Software Engineer - Student Intern — *Jun 2019 - Jul 2019*
  - An Android app development internship where I worked on a cloud-based energy-metering project.
  - Was responsible for developing the Android application that controlled the energy-metering device.
- **TakenMind Inc.** — Virtual
  Data Analyst Intern — *Dec 2018 - Jan 2019*
  - A Data Analytics and Visualization internship where Python, Numpy, Pandas and Machine Learning concepts were used to analyze, interpret and visualize datasets.

Projects

- **Scribe + - Voice Prescription System for doctors** A system that automatically generates prescriptions from a doctor's voice dictation. This is done to eliminate misdiagnosis arising due to illegible prescriptions. Blockchain technology is used to comply with HIPAA laws. I was responsible for creating and training the NER models for transcription purposes, and I also designed the mobile app screens using Flutter - https://github.com/aparnak799/ScribePlus
- **VoiceBot — Voice-Enabled personal assistant for the visually impaired** A system that helps a visually challenged person navigate everyday activities with complete autonomy. The system is based on Reinforcement Learning in order to make the robot aware of its surroundings.
- **SnapCode - A visual code compilation system.** A progressive web-app made using ReactJS for the front-end and Python along with AWS Textract for the back-end. This application allows users from anywhere in the world to run code in an online IDE by uploading a snapshot of the code. I worked on prototyping the screens of the application and on the back-end server - **https://github.com/ByteWarriors/SnapCode-PROD/tree/aparna**

- **AutoML for Computer Vision with Microsoft Custom Vision - Guided Project.** A guided project offered by the online learning platform Coursera. My project objectives were to train an image classifier and classify images using Microsoft Custom Vision. Once this was accomplished, I was able to do the same on web browsers with TensorFlow.js and Python - **https://bit.ly/3nDvL1c**

- **Automatic Machine Learning with H2O AutoML and Python - Guided Project.** A guided project offered by the online learning platform Coursera. My project objectives were to learn how Automatic Machine Learning works and how to automate pipelines of work in Machine Learning such as Data Preprocessing, Test Set Creation and so on. I used H2O AutoML and Python for this purpose and solved real-world business analytics problems using these tools as well - **https://bit.ly/3nNNm7A**

Publications

- Dr. D. Thenmozhi and Aparna Krishnan, **FIRE 2020 - AI-SOCO**, A paper and research project to identify the author of source code online, which can be used to curb plagiarism, Ongoing.
- Dr. D. V. Venkata Prasad, Aparna Krishnan, Arunima Sundar, Amlan Sengupta, **Unsupervised Learning of Procedures from Tutorial Videos,** A paper and the final year project to extract procedures from tutorial videos and presenting them as an easy-to-follow textual tutorial, thus eliminating the need to watch long videos, Ongoing.

Courses and Certifications

- **Google Cloud** - Cloud Engineering track in 30 Days of Google Cloud - https://bit.ly/36JJQTS
- **Algorithmic Toolbox** - Coursera-certified - https://bit.ly/3pEHeiK
- **University Courses - Current**: Cryptography and Network Security, Machine Learning Techniques, Cloud Computing, Human Computer Interaction
- **University Courses - Completed**: Computer Networks, Data Structures, Object Oriented Programming, Design and Analysis of Algorithms, Digital Principles and System Design, Computer Architecture, Operating Systems, Database Management Systems, Microprocessors and Micro-controllers

Accomplishments

- **Runner-up** team and **special mention** at **SIH 2020** for the project **Scribe +**.
- Placed **Third** in **HackJaipur 2020** for the project **SnapCode**.
- Placed among the **Top 5 Teams** in the Internal Hackathon organized at SSN College of Engineering as part of the **Smart India Hackathon.**
- Placed **1st** among 10 teams in the **Coding Hungama** competition on basic DSA organized by **ACM at Anna University, Chennai.**
- Secured the **First Rank school-wide** in **Computer Applications** in the Class 10 ICSE Board Examination, 2015.
- **Special Mention** at the **IFA 2019 Hackathon** organized by MakersTribe.

Teaching/Leadership Experience

- Active member of the ACM Student Chapter community in delivering seminars and organizing workshops. (2019-2020)- http://ssn.acm.org/
- Part of the core SSN Coding Club and SSN app development club (2018-2019)