Anirudh Prabakaran

https://anirudhprabakaran.com

EDUCATION

NIT - TIRUCHIRAPPALLI
B.Tech. in Computer Science
Graduated May 2018 | TN
Cumulative GPA: 8.18

PSBB SR SEC SCHOOL
Graduated May 2014 | Chennai
AISSCE Class XII CBSE: 95.8%

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithms
Image Processing
Natural Language Processing
Operating Systems
Database Management Systems
Computer Networks

SKILLS

PROGRAMMING
Languages:
• C/C++ • Python

RECENT AWARDS

PROFESSIONAL CERTIFICATE
• For strong algorithmic competency among Samsung engineers globally.

SPOT AWARD
• For outstanding contribution in Samsung. [Link]

EXTRA-CURRICULAR

SAMSUNG
• Member, Cricket Team

UNDERGRADUATE
• Head, Publicity, College Culturals
• Head, Marketing, CSE Symposium
• Dept. Coordinator, College Sports Fest
• Member, Chess Team
• Member, Coding Club (Delta)

VOLUNTEER
• Teaching Volunteer, Make a Difference

WORK EXPERIENCE

IRON MOUNTAIN | Machine Learning Engineer | Insight Division
September 2020 - Present | Bangalore, India

- Study/Implementation of models in the domain of Document Understanding (splitting, classification and entity extraction/validation). (PyTorch)
- Building a human-in-loop, event-driven pipeline to take these models to production. (Docker, Google Cloud Platform, TorchServe)

SAMSUNG RESEARCH INSTITUTE BANGALORE | Senior Software Engineer | IoT Products and Platforms Division
July 2018 – August 2020 | Bangalore, India

- Research and commercialization of home monitoring solutions powered by Artificial Intelligence (Python, TensorFlow, C++)
- WebRTC development to build an SDK for IoT devices enabling p2p communication. (C++)
- Commercialization of VoWiFi feature in the Galaxy SmartWatch series. (C++)
- Active contribution to IP and innovation through patent proposals, ideation contests and internal hackathons.
- Built a web prototype of a keyboard model for auto-correction and next-word prediction (Summer Internship - 2017). (Python, Javascript)

RECENT PROJECTS

DETECTING ANOMALOUS CONTENT FROM VIDEOS (2019)
- Built a network incorporating cues from 3D Convolution features.
- Aimed to reduce false alarms (typically high in motion detect systems) without compromising a lot on capturing anomalies.
- Publication accepted and presented at ICInPro-2019.[Link]

REAL-TIME HOME AUDIO MONITORING SYSTEM (2019)
- Built a CNN on top of a pre-trained model using Mel features.
- Targeted sounds like baby-cry, dog-bark, glass-break, etc.
- Solution was successfully ported on Samsung's home assistant and demonstrated during a workshop in South Korea (HQ)

CRICBOARD (2021) [LINK]
- Cricket Statistics page. Gathered 60K+ page hits on IPL Day 1.
- Highly interested in incorporating insights based on video analytics in the future.

PRODUCTIVITY CHATBOT (2020)
- Aim was to integrate this bot to Samsung's internal messenger to do simple daily tasks like booking meetings, applying leave, etc.
- Demonstrated the ability to learn simple actions (commits, deploys, logging, monitoring, etc.) from users and reuse. [Link]

SUBWAYSURFER (2020) [LINK]
- OpenCV implementation to play subway surfer with body actions.
- Work-in-progress to configure for all user environments, decrease latency, and to make a simple mobile app.