

# SATTI VAMSI KRISHNA REDDY

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## CONTACT

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## WORK EXPERIENCE



**Google DeepMind, India** | Onsite  
Senior Software Engineer - Machine Learning (L5) | Gemini Global Team

Dec 2024 – Present



**Samsung Electronics (HQ), South Korea** | Onsite  
Software Engineer - Backend & Infrastructure | AI Team, Mobile Division

Oct 2020 – Nov 2024

Languages - Java, Kotlin | Tools - Spring Boot, Gradle, Docker, K8s, LLM

- Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices via voice.
- Received 'Exceeds Most' - 100% grade in 2021 and 2023 review limited to less than 10% of employees.
- Currently working on LLM integration into Bixby to control smart IoT devices in SmartThings with LLM.
- Leading the work on search and execution of the right devices from user's command through SmartThings.
- Collaborated with overseas dev teams efficiently through business travels for design decisions and plans.
- Experience with handling code involving new features, unit tests, bug fixes, deployments, etc., with broad experience in complete lifecycle of backend services from ideation to deployment.
- Cleared both NLP and Computer Vision (Advanced) within Samsung's internal AI certification program.
- Achieved S/W Professional and Data Science II internal certifications with monetary benefit of US \$8600
- Organized official study groups to mentor new employees on Software Engineering and Data Science.
- Was a developer for the Bixby Home Platform ☞ - primarily involved with the backend services.
- Refactored new device-search microservice from existing services on Bixby Home Platform during internal cloud migration. Developed new features supporting fuzzy & advanced search after migration.
- Worked on new recommendation features together with the product team. Developed new microservices using graph databases to support the new personalized recommendations for users in Bixby.

## EDUCATION



**Indian Institute of Technology (IIT) Bombay, India** | Onsite  
B.Tech. in Computer Science and Engineering | CGPA: 9.13 / 10

Aug 2016 – Nov 2019

(Early Graduate)

Competitive Programming - C++ | Machine / Deep Learning - Python, NumPy, PyTorch

- India's most reputed and competitive university in STEM. Ranked 118 in QS World University Rankings
- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain
- Teaching Assistant (TA) in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018
- 10/10 in programming component of all computer science courses I had taken during my entire study
- 10/10 in Advanced Machine Learning, Deep Learning, Computer Vision, Linear Algebra, etc...

## SELECT PROJECTS

**Digital Garden** ☞ My writings on technology, software engineering, guides and programming 2020 ~  
**Screen Translator (75★)** ☞ Android App built with Kotlin, Jetpack tools and Compose UI 2022-2024

**Reinforcement Learning** ☞ - UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP 2019  
**AI & Machine Learning** ☞ - ConvNets, SVM, K-means, Ensembles, Learning Agents, A\* search etc. 2019  
**pix2pix: Image-to-Image Translation** ☞ - paper by Phillip Isola *et al.* implemented using PyTorch 2019  
**Compilers** ☞ - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison 2019  
**Database Systems** ☞ - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) 2018  
**Computer Networks** ☞ - Implemented Spanning Tree Protocol, SimpleFTP using sockets etc. 2018  
**Computer Graphics** ☞ - A tiny music-box animation rendered and created wholly using OpenGL 2018  
**Eclipse OJ** ☞ - First experience on development of full-stack Django web application and UI 2017

## COMPETITIVE PROGRAMMING



**ICPC** ☞ Rank 27 - 2020 Amritapuri (Online) | Rank 11 - 2020 Kharagpur (Online)  
Rank 70 - 2019 Amritapuri | Rank 36 - 2018 Amritapuri | Rank 18 - 2018 Chennai  
**Google Codejam** ☞ 2022 Round 1C - Rank 603 **Google Foobar** Finished all 5 levels in 2018  
**Google Kickstart** ☞ 2022 Round C - Rank 62 | 2022 Round A - Rank 155 | 2021 Round H - Rank 57  
2021 Round G - Rank 83 | 2020 Round F - Rank 386 | 2019 Round G - Rank 159  
2019 Round F - Rank 79 | 2019 Round E - Rank 75 | 2018 Round A - Rank 151  
**Meta HackerCup** ☞ 2023 Round 1 - Rank 467 | 2022 Round 2 - Rank 1232 | 2021 Round 2 - Rank 1690  
2019 Round 2 - Rank 836 | 2018 Round 2 - Rank 967  
**Project Euler** ☞ Rank 2237 (top 0.2%), by solving 225 challenging mathematics + algorithm problems  
**Codeforces** ☞ Rating 2053 max. (Candidate Master) — Best ranks include 16, 77, 81 in Div 2 contests  
**Codechef** ☞ Rank 988 (Global) - Best contest rankings include World Rank 8, 15, 19, 20, 34, 41, 55  
SnackDown 2021 Round 1A - Rank 63 | DS & Algorithms (Advanced) Certified 2020

## ACHIEVEMENTS

**IIT-JEE Advanced** ☞ Rank 20 across all of India among 1.2 million examinees for admission into IITs 2016  
**NEST** Rank 2 across all of India, the test for science university admissions (IISERs) 2016  
**AP-EAMCET** ☞ Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India 2016  
**TS-EAMCET** Rank 10, the test for university admissions by Govt. of Telangana, India 2016  
**KVPY Fellowship** Rank 26 by DST, Ministry of Science and Technology, Govt. of India 2014  
**NTSE Scholarship** Rank 158 with monetary benefit by Ministry of Education, Govt. of India 2012

## LANGUAGES

Trilingual — తెలుగు, English, हिन्दी | Beginner — 한국어 TOPIK Level 2 (191/200) ☞

CITIZENSHIP India