

# SATTI VAMSI KRISHNA REDDY

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## CONTACT

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## WORK EXPERIENCE



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

Dec 2024 – Present

Languages – C++, Python | Tools – Bazel, gRPC, JJ, other Google internal tools

- Driving development of key Gemini features, from agentic systems and i18n to student tools.
- Shipped high-quality Workspace integrations for i18n users by upgrading to new internal frameworks.
- Owned the backend internationalization for Scheduled Actions ☞, enabling its successful global launch.
- Spearheading a new student-focused agentic feature, owning the full lifecycle with FE, UX, PM, etc.



**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

- Engineered backend services at the intersection of Bixby (AI) and SmartThings (IoT) clouds.
- Led the end-to-end integration of LLMs into Bixby, enabling complex, natural language device control.
- Architected a new device search & execution microservice during a cloud migration, introducing fuzzy and advanced search capabilities to improve device discovery.
- Developed a recommendation engine using graph databases to deliver personalized user experiences.
- Received top performance rating ('Exceeds Most'), awarded to <10% of employees (2021, 2023).
- Initiated and led official study groups to mentor new employees on Software Engineering & Data Science.
- Achieved advanced certifications (NLP, CV, Data Science) with US \$10,000 in certification bonuses.

## 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
- Student Instructor 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 and programming 2020-now  
**Screen Translator (88★)** ☞ 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 2430 (top 0.18%), by solving 232 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 (<sup>191</sup>/<sub>200</sub>) ☞ **CITIZENSHIP** India