SATTI VAMSI KRISHNA REDDY

CONTACT

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WORK EXPERIENCE

Google DeepMind, India | *Onsite*   Dec 2024 — Present
Senior Software Engineer (L5) – Machine Learning | *Gemini Global Team*

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*   Oct 2020 — Nov 2024
Software Engineer – Backend & Infrastructure | *AI Team, Mobile Division*

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*   Aug 2016 — Nov 2019
B.Tech. in Computer Science and Engineering | CGPA: 9.13 / 10   *(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 ($^{191}/_{200}$)* ↗   **CITIZENSHIP**   India