


SATTI VAMSI KRISHNA REDDY

Résumé - January 2026

CONTACT

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WORK EXPERIENCE



Google DeepMind, India | Onsite

Senior Software Engineer (L5) – Machine Learning | Gemini Team

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

Dec 2024 – Present


- 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.

- Launched LaTeX PDF generation in Gemini Canvas, driving the feature from RFC to launch by leading cross-functional efforts across UX and marketing teams. Featured in Chrome Unboxed and Google Blog.

- TL for health & wellness in Gemini, engineering scalable backend infrastructure for best user experiences.



Samsung Electronics (HQ), South Korea | Onsite

Software Engineer – Backend & Infrastructure | AI Team, Mobile Division

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

Oct 2020 – Nov 2024

- 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

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

Aug 2016 – Nov 2019

(Early Graduate)

- 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 GardenMy writings on technology, software engineering and programming2020-now

Screen Translator (101★)Android App built with Kotlin, Jetpack tools and Compose UI2022-2024


Reinforcement Learning- UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP2019

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 PyTorch2019

Compilers- Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison2019

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 Codejam2022 Round 1C - Rank 603

Google FoobarFinished all 5 levels in 2018

Google Kickstart2022 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 HackerCup2023 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 EulerRank 2430 (top 0.18%), by solving 232 challenging mathematics + algorithm problems

CodeforcesRating 2053 max. (Candidate Master) – Best ranks include 16, 77, 81 in Div 2 contests

CodechefRank 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 AdvancedRank 20 across all of India among 1.2 million examinees for admission into IITs2016

NESTRank 2 across all of India, the test for science university admissions (IISERs)2016

AP-EAMCETRank 1, the test for university admissions by Govt. of Andhra Pradesh, India2016

TS-EAMCETRank 10, the test for university admissions by Govt. of Telangana, India2016

KVPY FellowshipRank 26 by DST, Ministry of Science and Technology, Govt. of India2014

NTSE ScholarshipRank 158 with monetary benefit by Ministry of Education, Govt. of India2012

LANGUAGES

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

CITIZENSHIPIndia