





# SATTI VAMSI KRISHNA REDDY

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WORK EXPERIENCE	<div> <b>Google DeepMind, India (Onsite)</b> Senior Software Engineer - Machine Learning (L5)   Gemini Global Team</div> <div>Dec 2024 — Present</div>		
	<div> <b>Samsung Electronics (HQ), South Korea (Onsite)</b> Software Engineer, Backend &amp; Infrastructure   AI Team, Mobile Division</div> <div>Languages — Java, Kotlin   Tools — Spring Boot, Gradle, Docker, Kubernetes, LLMs</div> <div>Oct 2020 — Nov 2024</div> <ul style="list-style-type: none"><li>- Working at the intersection of Bixby (AI cloud) and SmartThings (IoT cloud) to control IoT devices via voice.</li><li>- Received 'Exceeds Most' - 100% grade in 2021 and 2023 review limited to less than 10% of employees.</li><li>- Currently working on LLM integration into Bixby to control smart IoT devices in SmartThings with LLM.</li><li>- Leading the work on search and execution of the right devices from user's command through SmartThings.</li><li>- Collaborated with overseas dev teams efficiently through business travels for design decisions and plans.</li><li>- 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.</li><li>- Cleared both NLP and Computer Vision (Advanced) within Samsung's internal AI certification program.</li><li>- Achieved S/W Professional and Data Science II internal certifications with monetary benefit of US \$8600</li><li>- Organized official study groups to mentor new employees on Software Engineering and Data Science.</li><li>- Was a developer for the Bixby Home Platform - primarily involved with the backend services.</li><li>- Refactored new device-search microservice from existing services on Bixby Home Platform during internal cloud migration. Developed new features supporting fuzzy &amp; advanced search after migration.</li><li>- 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.</li></ul>		
EDUCATION	<div> <b>Indian Institute of Technology (IIT) Bombay, India (Onsite)</b> B.Tech. in Computer Science and Engineering   CGPA: 9.13 / 10</div> <div>Aug 2016 — Nov 2019 (Early Graduate)</div> <div>Competitive Programming — C++   Machine / Deep Learning — Python, NumPy, PyTorch</div> <ul style="list-style-type: none"><li>- India's most reputed and competitive university in STEM. Ranked 118 in QS World University Rankings</li><li>- Project: Human Pose Estimation using anchor-pose approaches to FAIR's Detectron with Prof. Arjun Jain</li><li>- Teaching Assistant (TA) in CS-152: Abstractions and Paradigms course with Prof. Sanyal in Spring 2018</li><li>- 10/10 in programming component of all computer science courses I had taken during my entire study</li><li>- 10/10 in Advanced Machine Learning, Deep Learning, Computer Vision, Linear Algebra, etc...</li></ul>		
SELECT PROJECTS	<div><b>Digital Garden</b> - My writings on technology, software engineering, guides and programming 2024 ~</div> <div><b>Screen Translator (75★)</b> - Android App built with Kotlin, Jetpack tools and Compose UI 2022-2024</div> <div><b>Project ZEN</b> - Collection of my algorithm implementations in C++ for coding competitions 2020-2023</div> <div><b>Reinforcement Learning</b> - UCB, KL-UCB, Thompson Sampling. Howard's Policy Iteration for MDP 2019</div> <div><b>AI &amp; Machine Learning</b> - ConvNets, SVM, K-means, Ensembles, Learning Agents, A* search etc. 2019</div> <div><b>pix2pix: Image-to-Image Translation</b> - paper by Phillip Isola et al. implemented using PyTorch 2019</div> <div><b>Compilers</b> - Scanner, parser and a semantic analyzer for a subset of C language using Flex, Bison 2019</div> <div><b>Database Systems</b> - SQL queries, schema design for mobile/web apps, use of connectors (JDBC) 2018</div> <div><b>Computer Networks</b> - Implemented Spanning Tree Protocol, SimpleFTP using sockets etc. 2018</div> <div><b>Computer Graphics</b> - A tiny music-box animation rendered and created wholly using OpenGL 2018</div> <div><b>Eclipse OJ</b> - First experience on development of full-stack Django web application and UI 2017</div>		
COMPETITIVE PROGRAMMING	<div> <b>ICPC</b></div> <div>Rank 27 - 2020 Amritapuri (Online)   Rank 11 - 2020 Kharagpur (Online) Rank 70 - 2019 Amritapuri   Rank 36 - 2018 Amritapuri   Rank 18 - 2018 Chennai</div> <div><b>Google Codejam</b> 2022 Round 1C - Rank 603 <b>Google Foobar</b> Finished all 5 levels in 2018</div> <div><b>Google Kickstart</b> 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</div> <div><b>Meta HackerCup</b> 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</div> <div><b>Project Euler</b> Rank 2237 (top 0.2%), by solving 225 challenging mathematics + algorithm problems</div> <div><b>Codeforces</b> Rating 2053 max. (Candidate Master) — Best ranks include 16, 77, 81 in Div 2 contests</div> <div><b>Codechef</b> Rank 988 (Global) - Best contest rankings include World Rank 8, 15, 19, 20, 34, 41, 55 SnackDown 2021 Round 1A - Rank 63   DS &amp; Algorithms (Advanced) Certified 2020</div>		
ACHIEVEMENTS	<div><b>IIT-JEE Advanced</b> Rank 20 across all of India among 1.2 million examinees for admission into IITs 2016</div> <div><b>NEST</b> Rank 2 across all of India, the test for science university admissions (IISERs) 2016</div> <div><b>AP-EAMCET</b> Rank 1, the test for university admissions by Govt. of Andhra Pradesh, India 2016</div> <div><b>TS-EAMCET</b> Rank 10, the test for university admissions by Govt. of Telangana, India 2016</div> <div><b>KVPY Fellowship</b> Rank 26 by DST, Ministry of Science and Technology, Govt. of India 2014</div> <div><b>NTSE Scholarship</b> Rank 158 with monetary benefit by Ministry of Education, Govt. of India 2012</div>		
LANGUAGES	Trilingual — తెలుగు, English, हिन्दी   Beginner — 한국어 TOPIK Level 2 (191/200)   CITIZENSHIP India		