

# SHASHANK REDDY CHIRRA

shshnkreddy@gmail.com  
github.com/shshnkreddy

EDUCATION	<b>University of Oxford</b> <i>DPhil in Engineering Science</i> <ul style="list-style-type: none"><li>• Supervisor: Jakob Foerster</li></ul> <b>International Institute of Information Technology, Bangalore</b> <i>Integrated Masters (B.Tech + M.Tech) in Computer Science</i> <ul style="list-style-type: none"><li>• GPA: 3.65 / 4.00 (Dean's Merit List)</li></ul> <b>Delhi Public School Bangalore South</b> <i>High School – CBSE (PCM, Computer Science)</i> <ul style="list-style-type: none"><li>• Percentage: 95%</li></ul>	United Kingdom 2025-Present India 2018-2023 India 2018
EXPERIENCE	<b>Research Engineer, Singapore Management University   Singapore</b> <ul style="list-style-type: none"><li>• Conducting research in Reinforcement Learning and AI for Science.</li></ul> <b>Intern, MPI-CBG   Dresden, Germany</b> <ul style="list-style-type: none"><li>• Developed Hybrid Polynomial Surrogate models for approximating PDE solutions with shock discontinuities.</li></ul> <b>Teaching Assistant, IIIT Bangalore   India</b> <ul style="list-style-type: none"><li>• Courses: Machine Learning, Math for ML (2x), Reinforcement Learning, Design &amp; Analysis of Algorithms.</li></ul>	2023-2025 Summer 2022 2020 - 2023
PUBLICATIONS	<ol style="list-style-type: none"><li>1. Chirra, S. R., Teoh, J., Paruchuri, P., &amp; Varakantham, P. On Discovering Algorithms for Adversarial Imitation Learning. <i>arXiv preprint arXiv:2510.00922</i>, 2025.</li><li>2. Chirra, S. R., Varakantham, P., &amp; Paruchuri, P. Safety through Feedback in Constrained RL. <i>Proceedings of the 38th Annual Conference on Neural Information Processing Systems (NeurIPS)</i>, 2024. <a href="#">[Poster]</a></li><li>3. Chirra, S. R., Varakantham, P., &amp; Paruchuri, P. Preserving the Privacy of Reward Functions in MDPs through Deception. <i>Proceedings of the 27th European Conference on Artificial Intelligence (ECAI)</i>, 2024. <a href="#">[Poster]</a></li><li>4. *Nadimpalli, K. V., *Chirra, S. R., Varakantham, P., Bauer, S. Evolving RL: Discovering New Activation Functions using LLMs. <i>Towards Agentic AI for Science Workshop (OpenReview)</i>, 2025. <a href="#">[ICLR '25 Workshop]</a></li><li>5. *Chen, C., *Chirra, S. R., *Ferreira, M. J., Gonzalez, C., Sinha, A., &amp; Varakantham, P. Towards Neural Network-Based Cognitive Models of Dynamic Decision-Making by Humans. <i>arXiv preprint arXiv:2407.17622</i>, 2024. <a href="#">[AAAI '25 Workshop on Cog Sci]</a></li><li>6. Suarez Cardona, J. E., Chirra, S. R., &amp; Hecht, M. Hybrid Surrogate Models: Circumventing Gibbs Phenomenon for Partial Differential Equations with Finite Shock-Type Discontinuities. <i>arXiv preprint arXiv:2408.02497</i>, 2024.</li></ol>	
ACADEMIC SERVICES	<b>Reviewer:</b> <ul style="list-style-type: none"><li>– Conferences – IJCAI 25, NeurIPS 25, AAAI 25, ICLR 25;</li><li>– Journal – IEEE Transactions on Dependable and Secure Computing</li></ul> <b>Volunteer:</b> ACM Web Conference '24	

**AWARDS  
AND  
HONORS**

- **Dean's Merit List, IIIT Bangalore** 2021-2023
- **PG Scholarship (GATE)** 2023
- **Rank 7, MSCI Developer Challenge India** 2022
- **Top 0.1% Rank, National Eng. Entrance Exams (JEE Main/Adv, CET, ComedK)** 2018