

# Abdul Rahim

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EDUCATION	<b>University of Regensburg</b> , Faculty of Informatics and Data Science Master of Science (M.Sc.), Human-Centred Artificial Intelligence (HCAI)	2025–present
	<b>Panjab University</b> , Chandigarh College of Engineering and Technology Bachelor of Engineering (B.E.), Computer Science and Engineering (CSE)	2020–2024
PUBLICATIONS	<b>Rahim, A. et al. (2025)</b> . Integrating Machine Learning into Cardiovascular Disease Risk Prediction: A Comprehensive Analysis of Cholesterol, Heart Rate, and Gender Impact on Disease Prevalence. In: Kumar, A., Swaroop, A., Shukla, P. (eds) Proceedings of Fourth International Conference on Computing and Communication Networks. ICCCN 2024. Lecture Notes in Networks and Systems, vol 1292. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-96-3250-3_23">https://doi.org/10.1007/978-981-96-3250-3_23</a>	
EXPERIENCE & INTERNSHIPS	<b>Open Source Developer, Open Pocket Organization</b> <ul style="list-style-type: none"><li>Developed an open-source alternative to GetPocket, a “read-it-later” service that lets users save and organize online articles</li><li>Designed and implemented a RESTful backend using Fastify and TypeScript, fully compatible with the original GetPocket API specification</li></ul>	Aug 2025–present
	<b>Linux Kernel Mentorship Program, Linux Foundation</b> <ul style="list-style-type: none"><li>Made 7+ contributions in mainline Linux kernel</li><li>Mitigated linear overflow vulnerabilities and fixed bugs, enhancing overall system security</li></ul>	Sept 2024–Nov 2024
	<b>Software Developer Intern, Gemini Solutions Pvt. Ltd.</b> <ul style="list-style-type: none"><li>Designed and developed an Automated Report Generation system, reducing the time required to create client reports by 90%</li><li>Collaborated with cross-functional teams to debug &amp; fix client code, ensuring high-quality deliverables and compliance with SLA’s</li></ul>	Jan 2024–May 2024
TRAINING	<b>Data Science</b> , National Institute of Technical Teachers Training and Research <ul style="list-style-type: none"><li>Learned data pre-processing, model training, and evaluation techniques. Implemented linear, polynomial, decision tree, and random forest regression algorithms</li></ul>	June 2023–July 2023
SKILLS	Languages      Typescript, Javascript, SQL, HTML, CSS, Python, Bash Scripting, C/C++, $\LaTeX$ Cloud            AWS (EC2, S3, IAM etc.), Docker, Terraform, Terminal text editors (Vim/Emacs), ssh Backend        Node.js, Express.js like frameworks (e.g. Fastify), REST API development, Postgres MongoDB, Redis, Git, Drizzle ORM, Vitest, Bruno, regex expression, JWT Python & ML    pandas, numpy, sklearn, matplotlib, seaborn N. Languages   English (C1), Deutsch (A1)	
PROJECTS	<b>Open Pocket – Backend server (Github)</b> <ul style="list-style-type: none"><li>Designed and developed a stateless, horizontally scalable backend for the Open Pocket platform</li><li>Defined optimized PostgreSQL schemas and implemented caching with Redis to improve performance</li><li>Utilized Drizzle ORM for type-safe database interactions, schema migrations, and robust query handling</li><li>Implemented access and refresh token mechanisms using JWT for secure, stateless authentication</li><li>Integrated Passport.js to support multiple authentication strategies with encrypted cookie-based sessions ensuring scalability</li><li>Wrote unit tests with Vitest and performed API testing using Bruno</li></ul>	

Game playing agent (*Github*)

- Developed a space shooter game from scratch using the Unity engine. Created a Reinforcement Learning (RL) agent for the game, trained using “Proximal Policy Optimization”

Web3 Decentralised Application (Dapp) (*Github*)

- Developed a Dapp for secure content sharing on the internet. Implemented ownership via the ERC1155 token standard on the Ethereum blockchain

Web interface for git repositories (*Link*)

- An open source, light, and fast web-based git repository viewer based on stagit. Re-designed the UI, implemented syntax highlighting and language auto-detection

VOLUNTEERING  
EXPERIENCE

**United Nations Volunteers Program**

July 2024–Aug 2024

- Collaborated with the African Association of Entrepreneurs to launch social media campaign. Registered new members and initiated fundraiser to support the organization

EXTRA-  
CURRICULARS

**Leetcode** (*leetcode.com/u/abdulrahim2002*): Solved 800+ questions on leetcode with 12k+ solution views

**GRE:** Cleared GRE exam with 323/340 marks. Scored perfect 170 in Quantitative section