

# Abdul Rahim

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EDUCATION	<b>Panjab University</b> , Chandigarh College of Engineering and Technology Bachelor of Engineering (B.E.) in Computer Science and Engineering (CSE)  Data Structures, Analysis and Design of Algorithms, Microprocessors, Operating Systems, Theory of Computation, Neural Networks, Advanced Database Systems, Computer Networks and Security ( <i>see details</i> )	2020–2024
PUBLICATIONS	Integrating Machine Learning into Cardiovascular Disease Risk Prediction: A Comprehensive Analysis of Cholesterol, Heart Rate, and Gender Impact on Disease Prevalence (first author)  Accepted for publication at ICCNet 2024 in the upcoming Springer LNNS	
EXPERIENCE & INTERNSHIPS	<b>Linux Kernel Mentorship Program</b> ( <i>see contributions</i> ) <ul style="list-style-type: none"><li>Among 48 candidates selected worldwide, to improve the Linux Kernel</li><li>Mitigated linear overflow vulnerabilities in the Linux Kernel, enhancing overall system security</li><li>Replaced insecure, deprecated APIs in kernel sources with safer alternatives, improving code safety</li><li>Fixed a bug in kselftest, improving the debugging experience</li></ul> <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 client code, ensuring high-quality deliverables</li><li>Proposed novel solutions in the testing framework, to meet client requirement</li></ul>	Sept. 2024–present  Jan 2024–May 2024
TRAINING	<b>Data Science, National Institute of Technical Teachers Training and Research</b> <ul style="list-style-type: none"><li>Learned data preprocessing, model training, and evaluation approaches. Implemented linear, polynomial, decision tree and random forest regression algorithms</li></ul>	June 2023–July 2023
SKILLS	Languages C, Python, Bash/Batch Scripting, C++, HTML, CSS, JavaScript, $\LaTeX$ , C#, Assembly, Ocaml, SQL, MATLAB Cloud AWS (EC2, S3...), Docker, Terraform Linux Kernel module programming, custom Kernel compilation, systemd, cron jobs Technologies Git, gdb, GNU Make, Terminal editors (Vim/Emacs), Game Development (Unity Engine), ML-Agents (Unity), REST APIs, distributed ledgers, MongoDB	
PROJECTS	Game playing agent, <i>github</i> <ul style="list-style-type: none"><li>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” <i>Schulman et.al. 2017</i></li></ul> Web3 Decentralised Application (Dapp), <i>github</i> <ul style="list-style-type: none"><li>Developed a Dapp for secure content sharing on the internet. Implemented ownership via the ERC1155 token standard on the Ethereum blockchain</li></ul> Web interface for git repositories, <i>view</i> <ul style="list-style-type: none"><li>An open source, light and fast web-based git repository viewer based on stagit. Redesigned the UI, implemented syntax highlighting and language auto-detection</li></ul>	
VOLUNTEERING EXPERIENCE	<b>United Nations Volunteers Program</b> <ul style="list-style-type: none"><li>Collaborated with the African Association of Entrepreneurs to successfully launch a social media campaign. Registered new members and initiated a fundraiser, to support the association</li></ul> <b>Community-run effort</b> <ul style="list-style-type: none"><li>Participated in a community-run initiative providing free meals to patients and their families outside PGI Hospital, assisted in distribution and resource management to ensure efficient operations</li></ul>	July–August 2024  June 2024–present