

# Mihir Panchal

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## PROJECTS

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- Engraph** | Mozilla Fellowship | [GitHub](#) [Website](#) [Youtube](#) January 2024 – June 2025
- Engineered an AI-powered code documentation generator using static code analysis and GraphRAG, that enables LLM-enhanced, structured documentation with interactive dependency graphs for improved code comprehension.
- CiteSpy** | Downloads 192+ | [GitHub](#) [Marketplace](#) [Semantic Scholar](#) [Youtube](#) August 2024
- Developed a Visual Studio Code extension that enhances coding and research efficiency by automatically scraping and displaying academic paper summaries, titles, and links, streamlining research workflows within the editor.
- InsightHound** | 100x Buildathon Winner | [GitHub](#) [Youtube](#) December 2024
- Deployed an AI-driven research agent with LangChain, boosting startup decision-making efficiency by 126% through data-driven insights and actionable strategies for competitive advantage and product-market fit.
- CommentCleaner** | Downloads 2067+ | [GitHub](#) [Marketplace](#) [Youtube](#) December 2023
- Programmed a Visual Studio Code extension to remove comments from source code across 10+ programming languages, enhancing code readability, simplifying maintenance, and boosting developer productivity.
- CodeLineLogger** | Downloads 683+ | [GitHub](#) [Marketplace](#) [Website](#) [Youtube](#) December 2023
- Visual Studio Code extension in JavaScript, featuring breakpoint logging, conditional logging, variable tracking, customizable log output formats, and levels, enhancing code analysis and debugging capabilities.
- ThinQ** | [GitHub](#) [Youtube](#) | *PICT TechFiesta International Hackathon Finalist* April 2024
- Implemented comprehensive educational platform with CRUD operations, video calling, attention tracking, automated note and quiz generation and cloud-based resource management, enhancing remote learning experiences
- DealDex** | Lines of Code Hackathon Winner | [GitHub](#) [Youtube](#) April 2024
- Innovated an e-commerce platform with data aggregation, intuitive search, detailed comparisons, and actionable insights. Utilized web scraping for comprehensive product data and integrated AR/VR for immersive comparisons.
- STAMP Drone** | Capstone Project Diploma | [GitHub](#) January 2023 – May 2023
- Revitalized a drone control system using React and Flask that uses Tensorflow and Mediapipe for hand gesture recognition and Python with the YOLO algorithm for real-time object detection.

## BLOGS AND COURSEWORK

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- Technical Writer on GeeksForGeeks and Medium** [GeeksForGeeks](#) [Medium](#)
- Authored technical blogs on AI, AWS, multimedia, and hybrid programming, covering Amazon SageMaker, ChatGPT clones, DynamoDB automation, text-to-speech systems, and Python-Dart cross-language development
- Generative AI and Operational Security Coursework** [Gen-AI](#) [Op-Sec](#)
- Developed AI-driven and security-focused code for Generative AI and Operational Security coursework, implementing model fine-tuning, adversarial defense techniques, and secure AI deployment strategies

## EXTRACURRICULAR ACTIVITIES

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- Responsible AI Fellowship** | SimPPL funded by Mozilla [Project Details](#)
- Applied knowledge graph driven representation learning with GraphRAG to generate enriched embeddings that integrate syntax, semantics, and structural properties of large scale software systems
- Research Head at Association for Computing Machinery** | DJSACM [Youtube](#)
- Mentored 50+ students in research methodologies and technical writing; conducted 5+ workshops on research paper writing, publishing strategies, and core technical skills to enhance academic and professional development
- Community Volunteer** | Foss United Mumbai [Event Details](#)
- Actively volunteered with FOSS United Mumbai, supporting the planning and execution of open-source technology meetups and conferences, including speaker coordination, and community engagement initiatives.
- Open Source Developer** | Hacktoberfest 2022, 2023, 2024 [Holopin](#)
- Contributed to 15+ open-source projects, strengthening global developer communities; earned 3 Hacktoberfest completion badges for consistent, impactful contributions across diverse repositories and tech stacks.