

Carl Raven Barajas

AI/ML Engineer

ravenbarajas2001@gmail.com • 0920 270 5794 • Muntinlupa City, Metro Manila

An AI/ML Engineer with a strong background in Python development, I am passionate about creating impactful, data-driven solutions. My experience includes building applications, working with large datasets, and developing intelligent systems leveraging AI. Known for my problem-solving abilities, attention to detail, and ability to quickly learn new technologies, I excel in collaborative environments and have a proven track record of leading teams on projects. With strong communication and interpersonal skills, I am adept at guiding team members, fostering a positive work culture, and ensuring alignment with project goals to deliver innovative solutions.

Technical Skills

Languages: Python, SQL, JavaScript, C#, HTML5, CSS3, PHP 8

Python Tools & Libraries: Pylint, MyPy, PyTest, Scikit-learn, PyTorch, Pandas, NumPy, HuggingFace Transformers, MLflow

Frameworks: LangChain, Django, Flask, ReactJs, Laravel 9, ASP.NET Core, MAUI, Xamarin, Bootstrap

Cloud Technologies: Google Cloud Platform, Amazon Web Services, Microsoft Azure, Databricks

Tools & Technologies: Git, Trello, ClickUp, Jira, Docker, Kubernetes

Data Visualization: Plotly, Seaborn, Matplotlib

Development Methodologies: Agile Development, Waterfall

Work Experience

AI/ML Engineer

Accenture, Inc.

Nov. 2024 - Present

Mandaluyong, City

- Made significant contributions to the development and deployment of AI applications using PyTorch and Hugging Face transformers, achieving ~98% uptime through optimized model serving and infrastructure management
- Maintained robust CI/CD pipelines in Azure DevOps while implementing containerization with Docker and Kubernetes, reducing model inference time by approximately 40% through efficient orchestration and scaling practices
- Contributed to team discussions by offering solutions to work-related challenges, while utilizing version control (Git) to ensure seamless integration of AI systems, resulting in a 25% reduction in deployment cycles
- Implemented MLflow for systematic experiment tracking and model versioning, collaborating with cross-functional teams to streamline the ML development workflow and improve project efficiency

Application Developer

Viva Communications, Inc. (VCI)

Feb. 2024 – Nov. 2024

Pasig, City

- Played a key role in 3 major projects's SLDC, developing and maintaining internal software tools for 1,000+ users, which improved operational efficiency by 20% through effective cross-department collaboration and requirements gathering
- Minimized bug incidents by 30% and accelerated deployment speed by 15% by actively participating in coding, testing, and debugging, and implementing CI/CD practices for faster, more reliable software releases
- Increased user adoption by 15% by creating detailed documentation and leading comprehensive training sessions, ensuring effective utilization of new system features and enhancing overall productivity

Web Development Intern

LexMeet, Inc.

Mar. 2023 – Aug 2023

Pasig, City

- Increased customer engagement by 25% through developing a dashboard module that enabled clients to track over 10 key business metrics including schedules, client engagement, and reviews
- Reduced development time by 15% while achieving 100% on-time delivery, collaborating with clients and the development team to gather requirements, design, develop, and deploy the dashboard
- Improved operational efficiency by 20% by implementing features that delivered valuable insights for better decision-making, directly contributing to enhanced client performance

Projects

Customer Support Chatbot

Accenture, Inc.

- Improved customer interaction efficiency by developing a conversational AI solution using, streamlining the process of query resolution and reducing response time

- Improved chatbot accuracy and user satisfaction by fine-tuning language models with domain-specific product knowledge, leveraging MLflow for model training and evaluation
- Enabled seamless integration with internal systems and knowledge bases, enhancing the chatbot’s response quality and ensuring real-time access to relevant information, using LangChain to manage the conversation flow and context

Stock Sentiment Analysis Platform

Personal Project

- Developed a machine learning-based platform for stock market sentiment analysis using NLP on financial news and social media data, leveraging Python, Scikit-learn, and PyTorch for accurate sentiment and trend predictions
- Created a cross-platform mobile app with .NET MAUI to deliver real-time sentiment insights and stock predictions, integrating data from the platform for accessible, on-the-go analysis
- Designed an interactive web dashboard using Flask and ReactJS, enabling users to track real-time sentiment trends and stock metrics, improving decision-making speed by 15%

Hybrid Recipe Recommender System

Capstone Project

- Improved recommendation accuracy by 20% through the development of a recipe recommendation mobile app using C# Xamarin, Flask, ReactJS, and TF-IDF and content-based filtering techniques, deployed on Google Cloud Platform
- Enhanced user engagement by 30% by creating a seamless user experience with a responsive mobile frontend using Xamarin, a web CMS with ReactJS for recipe management, and data analysis using Google Colab, Pandas, and NumPy
- Led a team of four to reduce completion time by 15% and post-launch bugs by 45%, leveraging Git for version control and BigQuery for scalable data management, resulting in a more robust and efficient app

Certification

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| Amazon Web Services | Associate Solutions Architect | Jan. 2025 |
| Databricks | Associate Generative AI Engineer | Dec. 2024 |

Education

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| Polytechnic University of the Philippines | Bachelor of Science in Information Technology | 2019 - 2023 |
| <ul style="list-style-type: none">• Honor: Consistent Dean’s Lister for 1st and 2nd semester for 4 years (2019-2023)• Related coursework: Object Oriented Programming, Data Structures and Algorithms, Operating Systems, Database Development and Administration, Application Development, Mobile Application Development, Data Science, Project Management | | |

References

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| Atty. Marlon P. Valderama <i>President/CEO, Lexmeet</i> 0917 791 1104 contact@lexmeet.com | Lloyd Objero <i>Software Developer, Metrobank</i> 0929 442 3749 lloydadrianobjero@gmail.com |
| Hans Salangsang <i>Associate Software Engineer, Infor</i> 0945 976 5721 hans.salangsang@gmail.com | Gian Angelo Dasigan <i>Software Developer, Asiagate Networks, Inc</i> 0961 2548941 dasigangianangelo10@gmail.com |