

## CYRUS C. MANTE

Valenzuela City, Philippines | (+63) 9627-630-923 | [cyrus2952@gmail.com](mailto:cyrus2952@gmail.com)

[linkedin.com/in/cyrusmante](https://www.linkedin.com/in/cyrusmante) | [github.com/mattekudacy](https://github.com/mattekudacy)

### EXPERIENCES

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#### AI/ML Computational Science Analyst - Accenture

Sept 2024 - Present

- Designed, developed, and implemented advanced AI and machine learning models to solve complex business problems and drive innovation.
- Created and optimized generative AI models, such as large language models (LLMs), to enhance client solutions and improve operational efficiencies.
- Worked closely with data scientists, software engineers, and product managers to ensure seamless integration and deployment of AI solutions, aligning them with business objectives

#### Scratch/Robotics Instructor - Logiscool Philippines

Mar 2024 - Present

- Instructed students in Scratch, Lego Spike, Roblox, and Minecraft, fostering a fun and engaging learning environment.
- Developed and implemented tailored lesson plans to teach coding fundamentals and advanced concepts to children aged 6-18.
- Encouraged creativity and problem-solving skills through interactive and project-based learning activities.

#### Python Instructor - ExcelHelpline

Feb 2024 - Present

- Designed and delivered comprehensive Python programming modules tailored for Data Analysts and Data Scientists.
- Developed hands-on activities and projects using Python libraries such as NumPy, Pandas, and Matplotlib.
- Collaborate with the lead instructor to provide weekly reports on student progress, maintaining a high-performance rating of 4.5/5.

#### AI Developer Associate - Cryptex Consulting Services

Jun 2023 - Aug 2023

- Lead the development of an internal receipt scanner app using Python and React Native, optimizing workflow efficiency.
- Spearhead an AI workshop, leveraging expertise as the pioneering intern with knowledge of AI.
- Optimize and revamp the existing car plate detection model within the toll booth system, improving speed and operational efficiency by ~40%.

#### Python Tutor - Zillex Investments LLC.

Aug 2022 - Aug 2023

- Taught basic, intermediate, and advanced Python programming to a 10-year-old, ensuring a strong understanding of core concepts and problem-solving techniques.
- Instructed on web development technologies, including HTML, CSS, JavaScript, and Django, to create dynamic and interactive web applications.
- Customized lessons to match the student's learning pace and interests, fostering a supportive and effective learning environment.

#### Data Analytics Intern - Dashlabs.ai

Aug 2022 - Dec 2022

- Cleaned, analyzed, and visualized healthcare data to extract meaningful insights using Google Sheets.
- Worked on a side project utilizing OpenCV to develop a deep learning model for predicting heart diseases based on ECG/EKG data.
- Worked collaboratively with a team to gather data, train, and validate the model, and present findings to senior management.
- Created interactive dashboards and reports to communicate findings to stakeholders and inform business decisions.

#### Data & Innovations Intern - AIA Philippines

Apr 2022 - Aug 2022

- Developed and deployed a next best offer model for insurance products, increasing conversion rates by ~20%.
- Devised an agent segmentation model using clustering techniques, identifying high-performing agents.
- Integrated SHAP into complex models, providing actionable insights to stakeholders.

#### Smart Cities Advocate Intern - SmartCT

Jan 2022 - Mar 2022

- Collaborated with the Tech and Delivery team to develop a comprehensive non-tech workshop focused on data literacy, enhancing participants' understanding of data concepts.

- Attended learning sessions led by mentors and guest speakers, gaining insights into industry trends and advanced data literacy techniques.
- Contributed to workshop content and structure, ensuring it met educational objectives and engaged participants effectively.

### **Machine Learning Engineer - Omdena**

Dec 2021 - Mar 2022

- Collaborated with a team of 50 AI engineers to develop and deploy machine learning models in a production environment.
- Participated on a project to detect abuse between children and healthcare workers, utilizing computer vision techniques to achieve high accuracy rates.
- Validated the models developed by senior engineers, ensuring the accuracy and reliability of the algorithms.

## **LEADERSHIP & ORGANIZATIONS**

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### **President - Developer Connect Manila (DEVCON Manila)**

Mar 2024 - Present

- Created events for IT professionals and students where the topics are related to Software Development, AI, Cloud, Machine Learning, Blockchain, and other recent technologies.
- Gave a talk to schools related to Machine Learning, AI, and careers.

### **Technical Lead - Google Developer Group Cloud Manila**

Jul 2023 - Present

- Handled the technical side of our events such as sounds, AVP, lights, and live streaming.
- Contributed to the planning of upcoming and future events of the organization.

### **Chief Consulting Officer - Google Developer Student Clubs UE Caloocan**

Aug 2023 - May 2024

- Supported the growth of our organization through providing resources, internal trainings, connections, and handling paperwork

### **Vice President - Developer Connect Manila (DEVCON Manila)**

Apr 2023 - Mar 2024

- Created events for IT professionals and students where the topics are related to Software Development, AI, Cloud, Machine Learning, Blockchain, and other recent technologies.
- Gave a talk to schools related to Machine Learning, AI, and careers.

### **Founder/Chief Executive Officer - Google Developer Student Clubs UE Caloocan**

Aug 2022 - May 2023

- Pioneered an organization that would help students in learning up-to-date technologies about Cloud, Web Development, AI, Data Science, UI/UX, and Mobile Development.

### **Mobile Development Lead - Google Developer Student Clubs AMA Caloocan**

Sep 2021 - Aug 2022

- Planned and executed webinars about Android Development using Google technologies such as Kotlin, Flutter, and Android Studio.

### **Technology Director - Algo Filipino**

Jun 2021 - Dec 2021

- Worked with the Programs team in organizing events, workshops and talks.
- Managed our FB and Discord groups for engagements.
- Managed the Development team and helped in deploying the organization's website.

## **SKILLS & INTERESTS**

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**Technical:** Python Data Science(Numpy, Pandas, Matplotlib, Seaborn, Scikit Learn), Python Deep Learning(Tensorflow, Pytorhc, OpenCV, NLTK), R Programming, C++, C# (ASP.NET) Javascript/Typescript (React.js, Next.js), SQL (MySQL, PostgreSQL, BigQuery), Cloud (AWS, Azure, GCP), CSS (TailwindCSS, Bootstrap), Version Control System (Github , DagsHub), Docker Engine.

**Language:** Filipino - Native; English - Fluent

**Certifications & Training:** AWS/Udacity AI Programming Nanodegree, Coursera Google Data Analytics, AI-900 Azure AI Fundamentals, AI-102 Azure AI Engineer, Github Foundations, AWS Academy Cloud Fundamentals, AI Planet LLM Bootcamp, freecodecamp Scientific Computing with Python, Jovian Data Analysis.

**Awards:** Participant - Engineering Exhibit of Student Research Colloquium 2020, Participant - Engineering Exhibit of Student Research Colloquium 2024, 2nd place - VB.Net Speed Programming Competition (2020), Participant- UP Data Science Challenge, Participant - Clarifai lablab Hackathon, Participant - OpenAI API lablab Hackathon, Top 12 - HackForGov 2.

## PERSONAL PROJECTS

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### **ELIFAI (Explain like I'm Five AI) | [Github and Demo Link](#)** Project & Development Lead

- Developed comprehensive documentation for ELIFAI, an interactive virtual assistant powered by GPT-4 Turbo, designed for educational and playful responses.
- Implemented a real-time chat interface using Streamlit, integrating with Clarifai for natural language processing and enhancing user engagement with educational emojis, and images using DALL-E 3.
- Participated in the lablab: NextGen GPT AI Hackathon, showcasing the prototype and ensuring detailed guidance on features, architecture, and usage for users.

### **Sentiment Review | [Github and Demo Link](#)** Project & Development Lead

- Developed a Streamlit web application for sentiment analysis on text data from CSV files, utilizing the Hugging Face Transformers library.
- Implemented features such as, visualization with annotated bar charts, word cloud generation, and sentiment score display.
- Enabled users to upload CSV files, select columns for analysis, and download sentiment analysis results, all within a Docker container environment.

### **Image Classifier for Iris Flowers using Pytorch. - [Github Link](#)** Project & Development Lead

- Developed an image classifier using PyTorch as part of Udacity's AI Programming with Python Nanodegree program.
- Converted the image classifier into a command line application for streamlined and efficient usage.
- Demonstrated proficiency in AI and machine learning principles through hands-on project implementation and code development.

### **Notevision | [Github Link](#)** Project & Development Lead

- Developed NoteVision, a mobile app designed to classify Philippine banknotes for visually impaired users, as part of an undergraduate thesis.
- Utilized Roboflow for building the machine learning model and Android Studio for app development.
- Implemented the project using Gradle 7.2 and SDK 30, ensuring compatibility and functionality across different Android environments.

### **Gemini API Exploration | [Github Link and Demo](#)** Project & Development Lead

- Developed a Streamlit web app utilizing the Gemini API to create recipes from uploaded images, enhancing user interactivity and engagement.
- Implemented a general chatbot feature within the app, providing users with conversational AI capabilities for a variety of inquiries.
- Integrated an audio summarizer, allowing users to convert and summarize audio files, showcasing versatility in handling multimedia content..

### **ToneTerra | [Github Link and Demo](#)** Project & Development Lead

- A color palette generator that uses the KMeans clustering algorithm to extract and visualize dominant colors from images.
- Designed an interactive user interface with customization options, including sliders and checkboxes, to enhance user experience.
- Implemented a feature to display a pie chart of color distribution, allowing users to easily understand and utilize the extracted color palette.

## SPEAKING ENGAGEMENTS

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- **Google Developer Student Clubs AMA Caloocan Android Study Jams | Dec 2021**

- **ACSSelerate Your Career (Freelancing Talk) | Mar 2022**
- **Google Developer Student Clubs UE Caloocan Info Session | Aug 2023**
- **DEVCON Kids at Sagada High School (AI for Kids) | Nov 2023**
- **Filipino Web Development Peers Mentoring Session (Intro to AI/ML) | Feb 2024**
- **Rizal Technology Institute - Statsquest 2 (AI in Data Analysis)| Feb 2024**
- **GDSC UE Caloocan Getting Started with ML (Numpy & Scikit Learn) | March 2024**
- **GDSC UE Caloocan Introduction to Google Mediapipe | March 2024**
- **NU Manila Getting Started with Machine Learning | March 2024**
- **GDSC NU Manila Google Talks 2 (Gemini API and Google AI Studio) | Apr 2024**
- **Campus DEVCON Lipa City Colleges (Hugging Face Transformers) | Apr 2024**
- **Campus DEVCON De Lasalle Lipa Batangas (Google Mediapipe) | Apr 2024**
- **Society of Computer Engineering Students UE Manila - CPE Technology Conference (Github Copilot) | May 2024**
- **STI Sta Mesa ICT Society - TechFusion | June 2024**
- **Google IO Extended (Computer Vision with Vertex AI and AutoML) | July 2024**
- **Pamantasan Lungsod ng Maynila - Tara ML? G! Machine Learning Webinar | July 2024**