JONH VINCENT **ALVARO**

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Padre Garcia, Batangas, Philippines

An adaptable and flexible programmer also a researcher, I excel at developing real world innovative solutions. My strong analytical skills allow me to ensuring high-quality outputs in minimal time. I am eager to apply my technical expertise and creative thinking for the growth and success of my organization. I am continuously seeking opportunities to enhance my skills and contribute meaningfully to the team.

EXPERIENCE

June 2023 – August 2023

RESEARCH AND DEVELOPMENT, Batangas State University TNEU Lipa | Internship

- Assist in research collection planning, recording and analysis of files under the supervision of Head Staff and Supervisor.
- Solve technical troubleshooting within technical issues within the Research and Development Office.
- Contributed in publishing the Research Journals of difference College Departments needed by the University Library.
- Organized and participated in different Research activities targeted by the Research and Development Office.
- Maintained the Database of different research papers of every student of College Department.

September 2019 – November 2019

IT SUPPORT ASSISTANT, Batelec II Electric Cooperative Inc. | Internship

- Cooperated on the workflow of the Company such as documents, encoding and typing data.
- Responsible for maintaining and troubleshooting the Pc/Laptop and the Internet connections in the whole office.

PROJECTS

LIBERICA LENS, AI Web App for Local Farmers of Liberica Coffees in Lipa City

Technologies Used: Tensorflow Keras, Deep Learning, Scikit-Learn, Computer Vision, Neural Networks, Flask, Pandas, Numpy, Docker, Seaborn, Matplotlib, Image Processing Algorithms
Programming Language Used: Python, SQL, Javascript

- Examined and collect dataset of Liberica Coffee Beans from different farms in Lipa City, applied image acquisition and image pre-processing for analysis and training of Model
- Developed and trained a *U-net Convolutional Neural Network* Architecture and it's achieved a *99.83%* of accuracy with the *IoU score of 0.985* suitable for extracting the morphological data of the Liberica Green Beans automatically
- Performed an Exploratory Data Analysis and data modelling by adjusting hyperparameters
- Conceptualized the goals of the website by recording bean data, image uploads, data analysis, data visualization and reporting
- Developed a user-friendly web interface to enable easy upload from users' farmers
- Integrated the Python Flask framework as the backend together with custom

dataset trained to U-net CNN model to handle image uploads and communicate the analysis data pipeline
- Achieved a centralized database for the collection and storage of high-quality images and morphological data of coffee beans that can help the Lipa Liberica Coffee Farmers in Lipa City.
- Implemented the hosting of the application by deploying to the cloud and set up the continuous integration and continuous deployment

FLAMENGO, POS Food Ordering Web App
Technologies Used: HTML, CSS, Bootstrap, PostgreSQL
Programming Language Used: Javascript, SQL, PHP

- Developed visually user friendly and responsive front-end for order placement
- Created a web backend logic with PHP to process orders and handle data pipeline of users
- Utilized the SQL by planning out the data schema and database storage
- Deployed the website on Hostinger platforms. Conducted thorough testing to identify and resolve any issues.

EMPIRICAL MODEL OF HEART DISEASE RISK, Data Analysis of Patience in USA
Technologies Used: Scikit-Learn, numpy, pandas, matplotlib, seaborn
Programming Language Used: Python

- Created a data pipeline to process the datasets coherently
- Built a *multiple regression model* to predict whether an actual heart disease rate is changing overtime by comparing the original dataset to the created dataset.
- Visualize the relationship between heart disease and each predictor using data visualization
- Evaluated the model by examining the impacts of increasing cigarette costs on smoking rates and heart disease and also other factors

EDUCATION

College Degree | August 2024
BACHELOR OF SCIENCE IN COMPUTER SCIENCE,
Batangas State University, The National Engineering University Lipa

- Published a Research Paper entitled: **"Machine Learning Quantification of Liberica Coffee Morphology in Lipa City"** successfully published in IEEE, a leading platform for scientific and academic research
- The research funded by Batangas State University Research and Development division. Securing a budget of **150,000** pesos for the research project
- Research aimed to assist Liberica local farmers in Lipa City, enhancing agricultural practices and supporting local economies.
- Represented the paper at the Student Research Colloquium 2024 held at BSU Lipa Campus.
- One of the Co-Authors that to be scheduled to present the paper at the upcoming *International Conference on Electrical Engineering, Computer Science and Informatics* (EECSI) 11th Conference in Yogyakarta, Indonesia, on September 26-27, 2024.

Senior High School | March 2020
SCIENCE TECHNOLOGY ENGINEERING and MATHEMATICS (STEM),
Padre Garcia Integrated National High School

SKILLS

TECHNICAL SKILLS
- Programming (Python, Javascript, SQL)
- Web (Nodejs, Expressjs, HTML, CSS, Bootstrap, PostgreSQL)

- Basic knowledge in Cloud Services such as Microsoft Azure
- AI, Machine Learning and Deep Learning Algorithms
- Knowledgeable in Git Version Control
- Hardware troubleshooting, maintenance and repair

PERSONAL SKILLS
- Having a communication and collaborative skill that able to work in team or groups.
- Adaptability and always willing to learn new thing in fast paced technology.
- Capable of managing tasks independently and self-sufficiently.

TRAININGS AND CERTIFICATIONS

- **MACHINE LEARNING SPECIALIZATION,** *by DeepLearning.AI and Stanford Online*

  ° Unsupervised Learning, Recommenders, Reinforcement Learning
  ° Advance Learning Algorithms
  ° Supervised Machine Learning: Regression and Classification

- Machine Learning A-Z: AI, Python & R, (*UDEMY*)
- WEB DEVELOPMENT FOR WEB DEVELOPERS**, (***DICT Training*)
- The Web3 Hackathon, AIM Conference Center Makati, *(Participant)*
- Python for Data Science and Machine Learning, (*UDEMY*)
- Introduction to Networks, (*CISCO*)

CONFERENCES AND TECH EVENTS ATTENDED

- Philippine Web3 Festival, Bonifacio Global City, Taguig *(General Admission, November 2022)*
- Batangas Information Technology Conference 2024 *(BITCON)*
- A Comprehensive Tour through AI Agents with Llama Index, *(Gen AI Philippines)*
- GENERATIVE AI AND THE FUTURE OF LEARNING, *(Gen AI Philippines)*