

PROFESSIONAL SUMMARY

Innovative AI/ML Solutions Specialist combining advanced machine learning expertise with deep scientific domain knowledge. Experienced in training major language models (ChatGPT, Gemini, Deep AI) for scientific applications, especially in biochemistry and chemistry. Proven ability to bridge complex scientific concepts with practical business applications.

TECHNICAL EXPERTISE

- AI/ML: LangChain, TensorFlow, PyTorch, Hugging Face, OpenAI API, Transformers, Generative AI
- Scientific: Biochemistry, Chemistry, Plant Biology, Research, Lab Protocols, Scientific Validation
- Programming: Python, SQL, REST APIs, Git, Jupyter, Cloud Platforms, Excel, Visualization

EDUCATION

AI & MACHINE LEARNING  
CERTIFICATE  
COLUMBIA ENGINEERING | JUN  
2024 – DEC 2024

BACHELOR OF SCIENCE –  
BIOCHEMISTRY  
Rutgers University | 2016 – 2022

CERTIFICATIONS

Vector Marketing President's Club  
Leadership Academy Graduate

La Raven  
Gordon

AI/ML SOLUTIONS SPECIALIST &  
SCIENTIFIC DOMAIN EXPERT

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[LinkedIn](#) | [GitHub](#)

PROFESSIONAL EXPERIENCE

AI SOLUTIONS SPECIALIST & DATA AUDITOR |  
FREELANCE | REMOTE

- DESIGNED AI SYSTEMS REDUCING RESPONSE ERRORS BY 40%
- TRAINED LLMS FOR SCIENTIFIC APPLICATIONS WITH 95% USER SATISFACTION
- BUILT PIPELINES PROCESSING 10,000+ DATA POINTS WITH 98% ACCURACY

SMALL BUSINESS AI IMPLEMENTATION SPECIALIST |  
FREELANCE | REMOTE

- LED AI INTEGRATION & AUTOMATION PROJECTS
- DEVELOPED ML PIPELINES AND SCIENTIFIC TOOLS

EDUCATION & ACADEMIC SUPPORT EXPERIENCE

LABORATORY ASSISTANT | RUTGERS PLANT SCIENCE

- CONDUCTED NUTRITIONAL ANALYSIS ON PLANT-BASED SAMPLES
- MAINTAINED LAB SAFETY AND COMPLIANCE

COURSE CONTENT CREATOR | RUTGERS UNIVERSITY

- DEVELOPED AND STREAMLINED TECHNICAL ACADEMIC CONTENT

TUTOR | PRINCETON REVIEW

- PROVIDED ACADEMIC SUPPORT AND PERFORMANCE ANALYSIS

## ACHIEVEMENTS & RESEARCH

- Scientific Domain Expert – LLMs
- Joyce Family Scholarship
- President's Club Inductee
- Top 60 of 12,500 Student Employees
- Research: Catnip Oils (2019), Environmental Impact (2018), Indigenous Vegetables (2022), Nutritional Analysis (2024)

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## MANAGEMENT EXPERIENCE

### FIELD SALES MANAGER | VECTOR MARKETING

- LED 50+ REPRESENTATIVES, IMPLEMENTED AI CUSTOMER SERVICE
- DEVELOPED ANALYTICS & VIRTUAL TRAINING SYSTEMS

### BRANCH MANAGER | VECTOR MARKETING

- MANAGED HIRING, TRAINING, AND LEADERSHIP DEVELOPMENT
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## KEY PROJECTS

- **Relocation Insights**

**Application:** [GitHub Repo](#)

Built conversational AI with 95% user satisfaction using LangChain and Google Gen AI. Integrated real-time data from multiple APIs. Developed scalable architecture. Technologies: Python, LangChain, Google Gen AI, Streamlit, APIs

- **AI Model Training & Optimization:**

Trained LLMs for biochemistry and chemistry domains (ChatGPT, Gemini, Deep AI). Developed validation frameworks and enhanced domain knowledge by 40%.

Projects: Flamingo WFE, Impala Chemistry, Bee Chicory Chemistry

- **Olympic Swimming Analysis:** [GitHub Repo](#)

Processed 100+ years of Olympic data. Implemented forecasting and statistical modeling.

Technologies: Python, Pandas, Prophet, NumPy, Data Visualization

- **Banking Interface System:** [GitHub Repo](#)

Engineered secure transaction system with error handling and conversational flows.

Technologies: Python, Financial APIs, ML Models, Dialog Flow

- **Indigenous Vegetables Research:** [View Project](#)

Led nutritional analysis, built data pipelines, and created educational materials.

Technologies: Analytical Chemistry, Data Analysis, MS Excel

- **Obesity Classification System:** [GitHub Repo](#)

Built ML model analyzing health factors. Achieved high accuracy in prediction.

Technologies: Python, Jupyter, Machine Learning Libraries