

# Quincy Simms

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## Professional Experience:

### **AI/ML Researcher | HLB Technology | Remote | currently working**

- Design, develop, and optimize machine learning algorithms and models for various applications.
- Implemented and fine-tuned various algorithms, including neural networks, decision trees, and support vector machines.
- Collect, reprocess, and analyze large data sets to derive actionable insights.
- Develop and maintain data pipelines and data management systems to support AI projects.
- Collaborate with cross-functional teams, including data scientists, engineers, and business analysts, to understand project requirements and deliver AI solutions.
- Provide technical expertise and guidance to team members and stakeholders.
- Create prototypes and conduct experiments to test and validate AI models and algorithms.
- Analyze experimental results and iterate on models to improve performance.
- Developed data visualization tools and dashboards to present findings to stakeholders.
- Prepare technical reports and presentations to communicate results to stakeholders and the broader scientific community.
- Work with engineering teams to integrate AI models into production systems.
- Ensure AI solutions comply with ethical guidelines and regulatory requirements.
- Led research projects on developing predictive analytic models for healthcare outcomes using machine learning techniques.
- Conducted research on AI ethics and policy implications, contributing to publications and policy briefs.

### **Artificial Intelligence Researcher | Pareto AI | Remote | currently working**

- Design, develop, and deploy advanced machine learning and deep learning models to solve complex business problems.
- Work closely with data scientists, software engineers, and product managers to integrate AI solutions into existing systems and products.

- Collaborate with stakeholders to understand business needs and translate them into technical requirements.
  - Perform extensive data analysis to extract meaningful insights and identify patterns.
  - Manage and reprocess large data sets to ensure data quality and relevance for model training and evaluation.
  - Continuously monitor and refine AI models to improve accuracy, efficiency, and scalability.
  - Create prototypes and proof-of-concept applications to demonstrate the feasibility and potential impact of AI solutions.
  - Experiment with new techniques and tools to push the boundaries of what AI can achieve at Pareto AI.
  - Ensure that AI models are developed and deployed ethically, with a focus on fairness, accountability, and transparency.
  - Document research processes, model architectures, and results comprehensively for future reference and reproducibility.
  - Implement algorithms for natural language processing, computer vision, and other AI applications.
  - Conduct cutting-edge research to stay abreast of the latest trends and advancements in AI and machine learning.
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#### **Artificial Intelligence Researcher | Outlier AI | Las Vegas, NV | 02/2024 – currently working**

- Collaborate with cross-functional teams to develop and implement innovative speech synthesis techniques to enhance our AI Healthcare Agent.
- Conducted research initiatives focused on advancing speech synthesis capabilities for medical applications, including TTS (Text-to-Speech), SST (Speech-to-Speech translation), and voice conversion methods.
- Drive the development of novel approaches in accent modeling, style-transfer, and multi-language audio synthesis to improve the efficacy and versatility of our healthcare AI platform.
- Conduct experiments, analyze results, and publish findings in top-tier conferences and journals within the healthcare and AI domains.

#### **Artificial Intelligence Researcher | Infogito | Las Vegas, NV | 04/2021 - 01/2024**

- Developed and implemented machine learning algorithms to analyze large data sets.
- Conducted in-depth data analysis to identify patterns and trends, providing actionable insights for business decision-making.
- Developed and implemented machine learning models to optimize processes, resulting in a 15% increase in efficiency.

- Collaborated with cross-functional teams to design and deploy AI solutions, ensuring seamless integration with existing systems.
- Published research papers in reputable journals, contributing to the advancement of AI and data analysis in the field.

### **Artificial Intelligence Research Analyst | Green tree Capital | Remote | 03/2019 - 04/2021**

- Collected, cleaned, and analyzed large data sets to extract meaningful insights, improving decision-making processes.
  - Created and maintained automated data pipelines, reducing processing time.
  - Produced comprehensive reports and visualizations to communicate findings to non-technical stakeholders.
  - Collaborated with business units to identify opportunities for process optimization through data-driven solutions.
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### **Technical Skills:**

- Programming Languages: Python, Java, C++,R
- Machine Learning Frameworks: TensorFlow, PyTorch
- Data Analysis Tools: Pandas, NumPy, Matplotlib, Seaborn
- Database Management: SQL, MongoDB
- AI Techniques: Machine Learning, Deep Learning, Natural Language Processing
- Software Development: Git, Agile methodologies

### **Projects**

#### **Predictive Analytic for Healthcare Outcomes**

- Developed a machine learning model to predict patient outcomes based on historical health data.
- Improved model accuracy by 20% through feature engineering and hyperparameter tuning.

#### **AI-based Diagnostic Tool**

- Led the development of an AI diagnostic tool for early detection of rare diseases.
- Collaborated with medical experts to ensure clinical relevance and accuracy.

#### **AI Ethics Research**

- Conducted research on the ethical implications of AI in healthcare.
  - Published findings in a leading journal and presented at an international ethics conference.
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**Education:**

**PhD. Degree of Science in Computer Science | Cornell University | Graduation date 2026**

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