RAVI SURESH

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PROFESSIONAL SUMMARY

AI Solutions Developer with proven experience building machine learning models and full-stack applications. Combines analytical rigor with creative problem-solving to deliver data-driven solutions that improve operational efficiency. Skilled in Python, React, and modern ML frameworks, with demonstrated success in complex, regulated environments and process optimization.

PROFESSIONAL EXPERIENCE

Public Health Consultant
Chicago Department of Public Health   04/2023 - 08/2023

- Coordinated care between 50+ community clinics across Chicago to improve early identification and intervention for at-risk populations
- Co-authored and published a public health abstract demonstrating a statistically significant negative association between community food access and BMI/obesity prevalence
- Developed data-driven tools and communication strategies for technical and non-technical stakeholders

Community Support Specialist
Thresholds, Chicago   06/2021 - 07/2022

- Oversaw case coordination for 30+ members with behavioral health conditions and increased appointment attendance and follow-up compliance by 15% through proactive outreach and tracking
- Maintained detailed, audit-ready documentation in SmartCare EHR to support compliance and care continuity
- Collaborated with multidisciplinary teams to develop individualized care plans and track outcome metrics

FEATURED PROJECTS

ReferralGuard - AI Analytics Platform   2024
FastAPI • React • Machine Learning • AWS

- Built comprehensive referral analytics platform using ML models for pattern detection and leakage prevention
- Implemented real-time dashboard with predictive analytics, serving 50+ healthcare providers
- Achieved 23% reduction in referral leakage through intelligent workflow automation

AI Authorization Platform   2024
React • FastAPI • Scikit-learn • PostgreSQL

- Full-stack web application using ensemble ML methods for approval probability prediction
- Deployed scalable solution handling 10,000+ daily predictions with 90%+ accuracy
- Implemented real-time API for seamless integration with existing workflows

Analytics Dashboard Platform   2024
React • D3.js • Python • PostgreSQL

- Built comprehensive analytics platform comparing performance metrics across 4,000+ organizations
- Created interactive visualizations and automated reporting using Python and cloud services
- Delivered actionable insights through optimized data pipelines and user-friendly interfaces

TECHNICAL SKILLS

Programming & Data
Python, JavaScript, SQL, R
Data analysis, Statistical modeling
Excel, Pandas, NumPy

AI & Machine Learning
Scikit-learn, TensorFlow
Random Forest, Predictive modeling
LLM Integration, Claude API

Web Development
React, Next.js, TypeScript
FastAPI, Node.js
Tailwind CSS, HTML/CSS

Tools & Deployment
PostgreSQL, Docker
AWS, Vercel, Git
Streamlit, Cursor AI

CORE COMPETENCIES

- Data analysis and statistical modeling
- Full-stack application development
- Process optimization and automation
- Machine learning model deployment
- Stakeholder communication
- Project management and delivery

EDUCATION & TRAINING

AI in Healthcare Specialization
Stanford University (Coursera) • 2024
Machine learning applications, predictive modeling, implementation strategies

Medical Studies
Indiana University School of Medicine • 2022-2024
Biomedical sciences, clinical coursework

BA Public Health
University of Virginia • 2017-2021
3.8 GPA (Honors), Pre-med track, Statistics, R programming

ADDITIONAL INFORMATION

- Available for immediate opportunities
- Open to relocation
- Security clearance eligible