Job Description: Lead Data Scientist – Healthcare Domain Specialist

Location: Bangalore
Company: RT Global Infosolutions Pvt Ltd (www.rgisol.com)
Client Partner: ThriveWell Tech (https://www.thrivewelltech.com/)
Employment Type: Full-Time
Industry: Healthcare/AI/Analytics
Domain Expertise: Predictive Analytics, Healthcare Data

About Us
We are a forward-thinking organization specializing in leveraging AI and data science to solve real-world problems specific to healthcare communities. Our mission is to improve the quality of life for elderly residents through innovative and predictive solutions. We are seeking an experienced **Lead Data Scientist** with expertise in healthcare analytics to drive the development and optimization of AI-powered predictive models. This role will focus on fall risk prediction, chronic disease management, and clinical decision support systems, working with EHR data, IoT sensor data, and real-time patient monitoring.

As a key leader in our data science team, you will define strategy, lead projects, and collaborate with healthcare professionals, engineers, and product teams to deploy scalable AI solutions.

Key Responsibilities
- **AI Model Development**: Design, develop, and optimize predictive models for elderly fall risk assessment using advanced machine learning (ML) and deep learning techniques.
- **Data Analysis**: Work with healthcare-specific data (e.g., patient records, sensor data, clinical data) to uncover patterns and actionable insights.
- **Domain Expertise Application**: Leverage healthcare domain knowledge to ensure accuracy, reliability, and ethical use of models in predicting fall risks.
- **Collaborate with Experts**: Collaborate with clinicians, healthcare providers, and cross-functional teams to align AI solutions with clinical workflows and patient care strategies.
- **Data Engineering**: Develop robust ETL pipelines to preprocess and integrate healthcare data from multiple sources, ensuring data quality and compliance.
- **Evaluation & Optimization**: Continuously evaluate model performance and refine algorithms to achieve high accuracy and generalizability.
- **Compliance & Ethics**: Ensure compliance with healthcare data regulations such as HIPAA, GDPR, and implement best practices for data privacy and security.
- **Research & Innovation**: Stay updated with the latest research in healthcare AI, predictive analytics, and elderly care solutions, integrating new techniques as applicable.
- **Team Management**: Guide all team members in technical and domain-specific problem-solving, manage day to day task deliverables, evaluate individual's performance and coach.
- **Stakeholder Management:** Present insights, models, and business impact assessments to senior leadership and healthcare stakeholders.

Required Skills & Qualifications
- **Education**: Master's or PhD in Data Science, Computer Science, Statistics, Bioinformatics, or a related field. A strong academic background in healthcare is preferred.
- **Experience**:
  - 8 - 11 years of experience in data science, with at least 2 years in the healthcare domain.
  - Prior experience in leading AI projects in healthcare startups, hospitals, or MedTech companies.
  - Ability to work in cross-functional teams.
  - Ability to publish papers and research findings related to healthcare data science
- **Technical Expertise**:

- Proficiency in Python, R, or other programming languages used for ML and data analysis.
- Hands-on experience with ML/DL frameworks (e.g., TensorFlow, PyTorch, Scikit-learn).
- Experience with time-series data, wearable/sensor data, or IoT data integration is a plus.
- Strong knowledge of statistics, probability, and feature engineering.
- Familiarity with cloud platforms (AWS, Azure, GCP) and tools for scalable ML pipelines.
- **Healthcare Domain Knowledge**:
  - Understanding of geriatric healthcare challenges, fall risks, and predictive care strategies.
  - Familiarity with Electronic Health Records (EHR), wearable devices, and sensor data.
  - Knowledge of healthcare data compliance (e.g., HIPAA, GDPR).
- **Soft Skills**:
  - Strong analytical and problem-solving abilities.
  - Excellent communication skills to present findings to non-technical stakeholders.
  - A collaborative mindset to work with interdisciplinary teams.

Preferred Qualifications
- Knowledge of biomechanics or human movement analysis.
- Experience with explainable AI (XAI) and interpretable ML models.

What We Offer
- Opportunity to work on cutting-edge healthcare AI solutions that make a meaningful impact on elderly lives.
- Competitive salary and benefits package.
- Flexible work environment, with options for hybrid work.
- Opportunities for professional growth and leadership.
- Collaborative and inclusive culture that values innovation and teamwork.