Job Description: Senior Data Scientist

Nexus Intelligent Systems, Inc.

1. Position Overview

1 Nexus Intelligent Systems, Inc. (the "Company") seeks a Senior Data Scientist to join its advanced analytics team, responsible for developing and implementing sophisticated machine learning and predictive modeling solutions for enterprise clients in industrial and infrastructure sectors.

2 This position is a critical role within the Company's core technology development group, reporting directly to the Chief Technology Officer and supporting the Company's strategic objectives in AI-driven predictive maintenance and digital transformation services.

2. Position Responsibilities

1 Core Technical Responsibilities

- Design and implement advanced machine learning models for complex predictive maintenance and diagnostic applications
- Develop scalable data processing pipelines utilizing Python, R, and cloud-based machine learning platforms
- Conduct comprehensive statistical analysis and develop predictive algorithms for enterprise-level clients
- Create robust data visualization and reporting frameworks for technical and non-technical stakeholders

2 Strategic Contributions

- Collaborate with cross-functional teams to identify and develop innovative AI-driven solutions
- Support business development efforts by providing technical expertise during client engagement processes
- Contribute to intellectual property development and potential patent applications
- Mentor junior data science team members and support professional development initiatives

3. Qualifications and Requirements

1 Educational Requirements

- Ph.D. or Master's degree in Computer Science, Statistics, Mathematics, or related quantitative

discipline

- Advanced degree with demonstrated research experience in machine learning, statistical modeling, or artificial intelligence preferred

2 Technical Qualifications

- Minimum 5-7 years of professional experience in advanced data science roles

- Expert-level proficiency in:

a) Python (NumPy, Pandas, Scikit-learn)

b) Machine learning frameworks (TensorFlow, PyTorch)

c) Cloud computing platforms (AWS, Google Cloud, Azure)

d) Advanced statistical modeling techniques

3 Professional Competencies

- Demonstrated ability to translate complex technical concepts for non-technical audiences

- Strong communication and presentation skills

- Proven track record of delivering enterprise-level data science solutions

- Experience in industrial predictive maintenance or enterprise AI domains

4. Compensation and Benefits

1 Compensation Structure

- Competitive base salary commensurate with experience ($145,000 - $185,000 annually)

- Equity compensation package including stock options

- Performance-based annual bonus potential (10-20% of base salary)

2 Benefits Package

- Comprehensive health, dental, and vision insurance

- 401(k) retirement plan with company matching

- Flexible work arrangements

- Professional development and continuing education support

- Comprehensive wellness program

5. Employment Terms

1 Employment Classification

- Full-time, exempt position

- Regular employment with at-will status

- Potential for remote work with periodic on-site requirements

2 Confidentiality and Intellectual Property

- Mandatory execution of confidentiality and intellectual property assignment agreements

- Compliance with Company's data protection and information security policies

6. Application Process

1 Candidate Submission Requirements

- Comprehensive curriculum vitae

- Technical portfolio demonstrating advanced data science projects

- Three professional references

- Writing sample or technical presentation materials

2 Selection Timeline

- Initial screening: Within 10 business days of application submission

- Technical interview process: 2-3 weeks following initial screening

- Final selection and offer: Approximately 4-6 weeks from initial application

7. Disclaimer

1 Nexus Intelligent Systems, Inc. is an equal opportunity employer. The Company does not discriminate on the basis of race, color, religion, gender, sexual orientation, national origin, age, disability, or veteran status.

2 This job description is intended to provide general guidance and is subject to periodic review and modification.

8. Acknowledgment

By applying to this position, candidates acknowledge understanding and acceptance of the position's requirements and terms as outlined in this document.

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