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Senior AI Engineer

HERNDON, Virginia, United States   Consulting   Professional

Apply now

April 2025

Your role and responsibilities

Senior AI Engineer, IBM Corporation, Herndon, VA (Up to 40% telecommuting permitted):

- Engage with government clients to understand their specific needs, objectives, and regulatory constraints. Create high-level architectural designs for AI (Artificial Intelligence) and machine learning solutions, considering security, scalability, and compliance requirements.
- Decide on appropriate machine learning algorithms, models, and technologies, while ensuring they align with government guidelines.
- Lead the development of machine learning models using state-of-the-art frameworks and libraries.
- Work with advanced techniques, model ensembles, and hyperparameter tuning to optimize performance. Train machine learning models on government datasets and perform rigorous validation.
- Deploy models in secure government environments, complying with stringent security protocols.
- Develop processes for model retraining and maintenance.
- Provide guidance and mentorship to junior engineers and data scientists, helping them grow their technical skills across both machine learning and software development domains.
- Lead knowledge sharing sessions, code reviews, and technical workshops to foster a culture of continuous learning in AI, software engineering practices, and full stack development.

- Address ethical concerns including bias mitigation and algorithm fairness ensuring that solutions align with client values and policies.
- Utilize: Deep Learning, Machine Learning Algorithms, Generative AI Models, Natural language processing, API design/development, Complex Software architecture, Full Stack Development, Cloud infrastructure and hyper scalar technologies.

$174940 to $234100 per year. Full time.

Required education
Bachelor's Degree

Required technical and professional expertise
Required: Bachelor's degree or equivalent in Computer Science, Computer Engineering, Electrical Engineering or related and five (5) years of experience as a Developer, Software Engineer or related. Five (5) years of experience must include utilizing Deep Learning, Machine Learning Algorithms, Generative AI Models, Natural language processing, API design/development, Complex Software architecture, Full Stack Development, Cloud infrastructure and hyper scalar technologies.

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