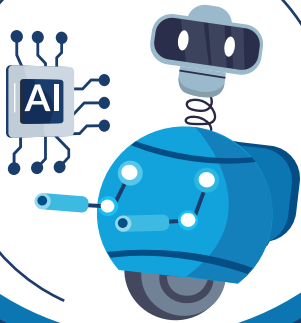


AI SPECIALIST



JOB DESCRIPTION

AI engineers design and develop intelligent systems for decision-making, pattern recognition, and problem-solving. Their responsibilities include model development, data processing, software engineering, and research. They collaborate with data scientists and domain experts to integrate AI solutions effectively into systems.

SALARY

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DAILY ROUTINE

AI engineers start the day reviewing tasks, emails, and attending meetings. They focus on coding, debugging, and training AI models. Some time is spent optimizing algorithms, collaborating with teams on data pipelines, and deploying models. Their day ends with documenting progress and planning the next steps.

IMPACT ON PRIVATE LIFE

AI engineering offers financial stability, career satisfaction, and flexible work options. However, long hours, constant learning pressure, and deep focus on abstract problems can lead to burnout and social isolation. Some engineers face unpredictable work schedules, including on-call duties for critical system issues.

SKILLS AND COMPETENCIES

AI engineers master programming (Python, Java, C++, R), frameworks (TensorFlow, PyTorch), and data tools (SQL, Hadoop). Strong math skills in linear algebra, probability, and statistics are essential. Ethics, critical thinking, and problem-solving are crucial, as well as effective communication for explaining AI concepts to non-technical stakeholders.

SELECTION CRITERIA

AI specialists in aviation need degrees in Computer Science, AI, or related fields (Master's/PhD preferred). They must have expertise in machine learning, neural networks, and NLP, plus proficiency in Python, R, or C++. Aviation-specific knowledge (air traffic, avionics, regulations like FAA/EASA) is a plus. Experience in AI-driven aviation projects (predictive maintenance, route optimization) is valuable. Certifications (Google AI, Microsoft AI, or aviation safety) add credibility. Strong problem-solving, data analysis, and cybersecurity skills are essential for aviation AI roles.

Engage 2

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Co-funded by
the European Union

This project has received funding from the SESAR Joint Undertaking under the European Union's Horizon Europe research and innovation programme under grant agreement No 101114648.

EDUCATION

AI engineers typically need a bachelor's in IT, Computer Science, Statistics, or Data Science. Postgraduate degrees and continuous learning help stay updated.

YEARS OF TRAINING REQUIRED

The timeline varies: a Computer Science degree adds 3-5 years, while a Master's or PhD for senior roles adds another 4-6+ years.