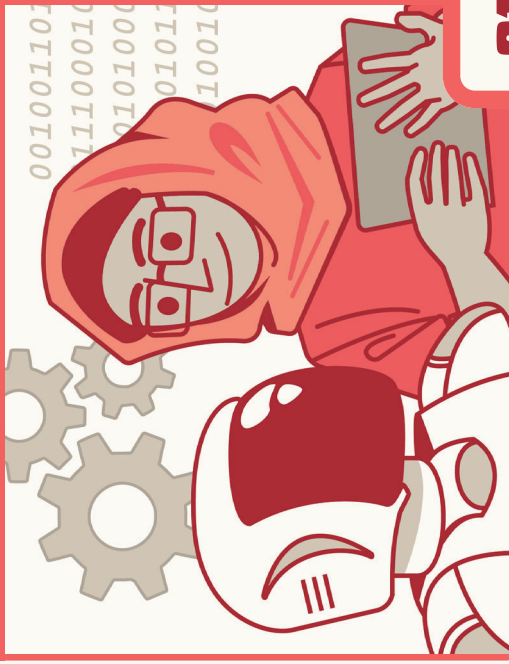


ROBOTICS ENGINEER



01

Design and development
of robotic systems

Examples

Delivery robots
Warehouse robots
Self-driving cars

Degree Pathways

Mechanical Engineering
Electrical Engineering
Computer Engineering
Computer Science or Robotics

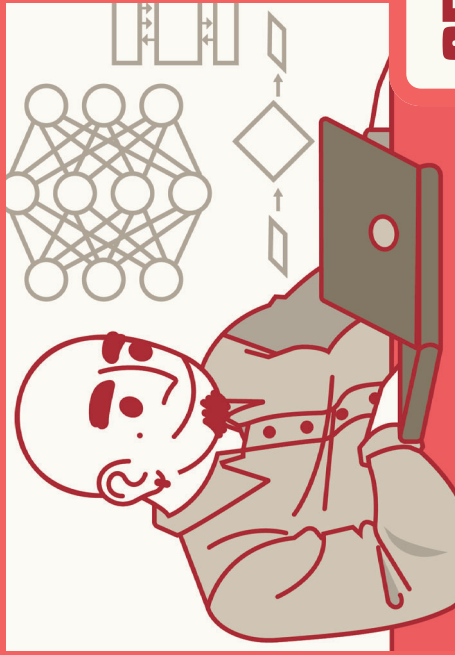
Technical Skills

Mechanical Design
Circuit Design
Robotics Algorithms
Programming

Median Salary

\$85,000 - \$120,000

MACHINE LEARNING ENGINEER



05

Designs and builds AI systems
that use large datasets to
make predictions

Examples:

Movie, music, or product
recommendation systems
Training generative AI models (e.g.,
ChatGPT, Midjourney)

Degree Pathways

Computer Science
Machine Learning
Mathematics
Statistics

Technical Skills

Machine Learning Algorithms
Deep Neural Networks
Model Evaluation
Statistics
Software Engineering

Median Salary:

\$145,000 - \$160,000

AI RESEARCHER



Develops new algorithms
and architectures for
artificial intelligence

Examples

Developing new machine learning
algorithms to train large language
models such as ChatGPT

Degree Pathways

Computer Science
Machine Learning
Mathematics
Statistics

Technical Skills

Machine Learning Neural Networks
Model Evaluation Statistics
Algorithm Design Programming

Median Salary

\$93,000 - \$130,000

AI ARCHITECT



08

Plans and designs large
AI-powered software
systems

Examples

Design an AI system that helps a
company better understand and
serve its customers

Degree Pathways

Computer Science
Information Systems & Technology
Data Science
Machine Learning

Technical Skills

System Architecture Programming
Data Management Machine Learning
Project Management Cloud Computing

Median Salary

\$107,000 - \$130,000

COMPUTER VISION ENGINEER



10

Develops algorithms and applications that allow computers to recognize information in images or video

Examples

Face recognition in smart phones
Visual search (e.g., Google Lens,
Pinterest)

Scene understanding in self-driving cars

Degree Pathways

Computer Science
Computer Engineering
Robotics

Technical Skills

Computer Vision Image Processing
Machine Learning Artificial Intelligence
Programming Computer Graphics

Median Salary

\$165,000 - \$170,000

DATA ARCHITECT



Site Analytics

09

Designs and implements an organization's strategies for data storage and access

Examples

Designing an Internet retailer's product and customer databases
Implementation of storage and security policies for public records databases

Degree Pathways
Information Systems & Technology
Computer Science
Data Science

Technical Skills

Software Development	System Architecture
Machine Learning	Data Visualization
Databases	Cybersecurity
Cloud Computing	

Median Salary
\$143,000 - \$150,000

DATA ENGINEER



02

Creates and manages
large datasets to support
machine learning and data
science projects

Examples

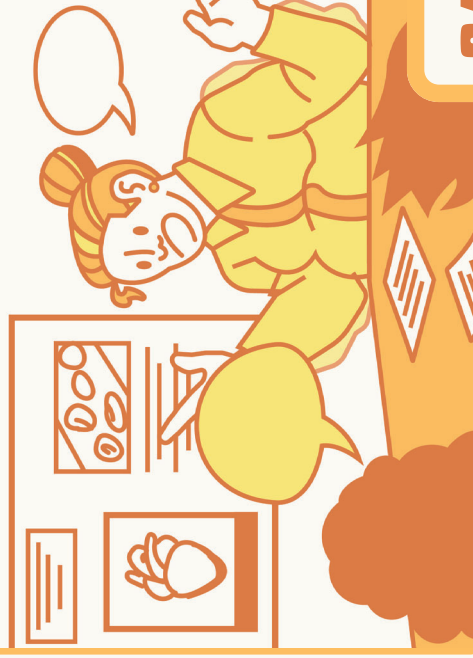
Collecting and organizing
disease outbreak data from
multiple health agencies

Degree Pathways
Information Systems & Technology
Computer Science

Technical Skills
Data Management
Data Science
Machine Learning
Programming

Median Salary
\$151,000 - \$160,000

DATA SCIENTIST



04

Collects and analyzes
datasets to detect patterns
that help organizations make
better decisions

Examples

Discovering new types of customers
based on purchase history
Modeling changes in animal
populations due to climate change

Degree Pathways

Computer Science
Statistics
Data Science

Technical Skills

Data Management
Data Visualization
Data Analysis
Machine Learning

Median Salary

\$115,000 - \$130,000

BUSINESS ANALYST



03

Solves business problems
using statistical and
machine learning tools

Examples

Performing financial analyses to
predict revenue and expenses
Forecasting seasonal demand for
products

Degree Pathways

Business Administration
Finance
Data Science
Computer Science

Technical Skills

Statistical Analysis
Financial Forecasting
Data Visualization
Machine Learning

Median Salary

\$68,000 - \$120,000

PRODUCT MANAGER



PUT THE PEOPLE FIRST



06

Manages the planning, development, and launch of products and services that use AI

Examples

Works with a team to introduce new AI features into email, social media, or graphic design tools

Degree Pathways

Business Administration
Marketing
Computer Science

Technical Skills

Business Strategy Design Thinking
Market Research Problem-solving
Data Analytics Team Management
Behavior Sciences

Median Salary

\$131,000 - \$150,000

USER EXPERIENCE (UX) DESIGNER



11

Works with users and software developers to create products that are easy to understand and use

Examples

Design the passenger experience in self-driving cars (e.g., in-car displays, audio notifications, and mobile app)
Design interfaces for mobile apps, websites, and digital products

Degree Pathways

Computer Science
Web and Graphic Design
Human Factors Engineering
Psychology

Technical Skills

Interviewing
Field Research
Data Analysis
Behavioral Analysis
Interface Design
Prototyping
User Testing

Median Salary

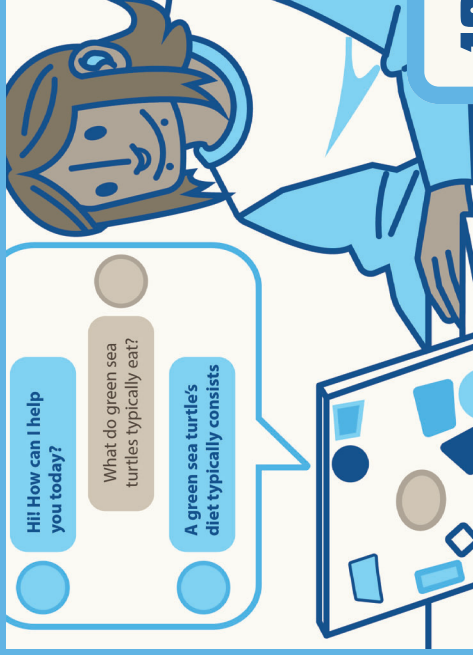
\$143,000 - \$150,000

CONVERSATIONAL AI ENGINEER

Hi! How can I help
you today?

What do green sea
turtles typically eat?

A green sea turtle's
diet typically consists



13

Develops Natural
Language Processing
functionality for chatbots
and intelligent assistants

Examples

Develop customer service
chatbots for websites
Develop intelligent assistants such
as Siri, Alexa, or Google Home

Degree Pathways

Computer Science
Artificial Intelligence
Cognitive Science
Linguistics

Technical Skills

Linguistic Analysis
Dialogue Management
Large Language Models
Software Engineering

Median Salary

\$63,000 - \$85,000

NATURAL LANGUAGE PROCESSING (NLP) ENGINEER



12

Develops applications
that can understand and
generate human language

Examples

Develops algorithms that allow search
engines to understand & answer questions
Develops text summarization and
language translation apps

Degree Pathways

Computer Science
Machine Learning
Cognitive Science
Linguistics

Technical Skills

Linguistic Analysis
Machine Learning
Large Language Models
Software Engineering

Median Salary

\$108,000 - \$120,000



AI Career Cards

Core AI

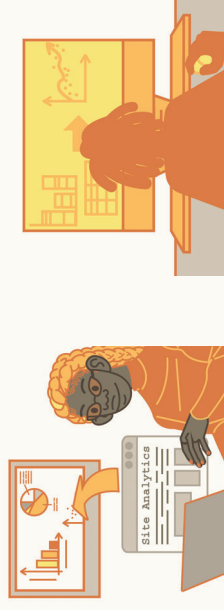


CORE AI professionals create AI functionality for AI products, services, and tools we use in our personal and professional lives.



AI Career Cards

Data



DATA professionals collect, organize, store, and process large data sets that are used to train AI models and gain insights.



AI Career Cards

Product Design

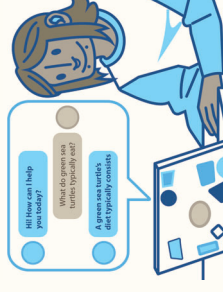


AI PRODUCT DESIGN
professionals design and launch innovative AI products through understanding the needs of users and goals of businesses.



AI Career Cards

Language



AI LANGUAGE professionals create algorithms and intelligent agents that enable computers to understand human language, talk, and collaborate with us.

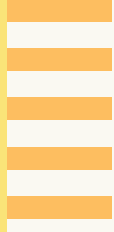


AI CAREER CARDS

Explore Your Future In AI



Artificial Intelligence
For Georgia



ABOUT THIS DECK

Created by Katja Karoleski,
Joanna Mijares, and Arwen
Dowers

CHECK OUT THE FULL SET

<https://ai4ga.org/>

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THANK YOU

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