Become a Data Scientist at **Prolego**

Join an elite team. Boost your skills. Make an impact.

Get on a non-managerial career path.

⌂ PROLEGO

Meet your new hiring manager

Meet Justin, your hiring manager.

Justin loves developing impactful solutions at the intersection of mathematics and computing. His fascination with this potent combination is what drove him to the field of artificial intelligence. Beyond the hype, he sees data science, machine learning and intelligent computing as tools that are changing how people live and work. He joined Prolego because he wanted to bring these techniques to a wide variety of businesses and help them develop the specific solutions that they need.

Justin began his career as an engineer developing advanced modeling and simulation techniques for designing nuclear reactors for naval propulsion. He subsequently held academic faculty positions at the University of Pittsburgh and the University of Massachusetts Lowell, where he was active in both applied research and teaching. He also taught data science to hundreds of students across North America as a lead instructor for General Assembly. Justin holds a PhD from Georgia Tech.

Want a preview of what it is like working with Justin? Check out his video on weak supervision.

HIRING MANAGER PROFILE

This is one of the most important factors for elite machine learning talent in choosing an employer. They want to know the credentials of the hiring manager.

Join an elite engineering team

Equally important to elite machine learning talent are the bios of the team members they'll be working with. Elite machine learning engineers want to work on a team of A-players.

Our entire engagement team gets data science. Of course you'll be working with the world-class team Justin is building, but you will also be working with colleagues who understand and respect what you do. Our founder, Kevin Dewalt, built his first neural network in 1994. Megan McGee runs our client engagements and is a data scientist herself.

You don't have to become a manager

NON MANAGERIAL CAREER OPTIONS

It's extremely important to elite machine learning engineers that there are career development paths that don't involve moving into management.

Data science is a career of lifelong learning and exploration. We value our team members who want a career as an individual contributor. **More time on keyboard, less time in meetings.**

Representative projects

Every potential employer promises you an opportunity to work on cutting-edge projects, but very few deliver on that promise. Here are examples of projects we have done for some of the world's largest companies:

DIVERSE PROJECT PORTFOLIO

Elite machine learning engineers want to work on a diverse portfolio of projects. Go into great detail describing the types of projects on which they'll be working.

- Develop a methodology to automate a complex business using **inverse reinforcement learning**.
- Used **weak supervision** and programmatic approaches to building training data to help one of the largest life insurance companies reduce their legal risks by automating contract review.
- Performed a literature search of **state-of-the-art approaches to entity extraction** for one of the world's largest security regulators. Ultimately evaluated the LUKE methodology and many other standard techniques.
- Used **topological data analysis** for a more sophisticated visualization of chat conversations at one of the largest life insurance companies.
- Developed **a bespoke approach for table extraction and transaction reconciliation** from PDFs at one of the world's largest banks.
- Developed an **MLOps architecture** for scaling to thousands of models.

Most of our projects involve identifying and solving problems using state-of-the-art engineering techniques. Usually this involves some sort of deep learning. A typical client engagement is 3-6 months long and a combination of problem identification, strategy, analysis, and modeling. At the end, we have a methodology and model built, along with analysis on how it would solve a business problem.

Subsequent engagements focus on deploying and improving the solution.
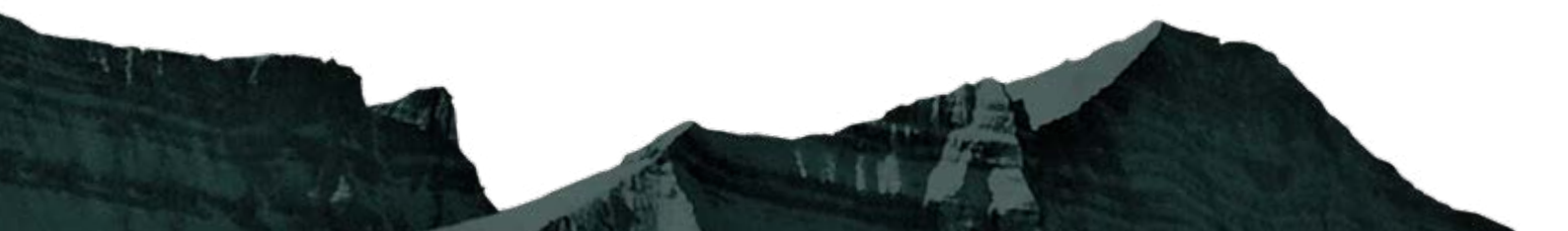
We value continuous learning

It is extremely important to elite machine learning engineers that they are continuously learning. In your job description tell candidates what exactly they can expect to learn while on the job.

Our clients don't hire us to clean data or perform straightforward machine learning tasks. They hire us to reinvent their business with AI, and our people have to stay current on cutting-edge technologies.

Here are examples of what you can expect:

- Becoming a **better programmer**. Expect to learn modern software engineering practices and tools. Soon enough you'll be a pro at Git, DevOps, and be able to write production-quality code.
- Company support for **getting certifications**. Prolego has paid bonuses to engineers who get certified on platforms like Google Cloud, Azure, and AWS.
- Leadership support for time to spend on **self-directed projects** relevant to our client work. For example, one of our data scientists developed a highlighting tool for use on our client NLP projects.
- Opportunities to **write and submit papers** to conferences. For example, Alex recently submitted an NLP paper to a national machine learning conference.
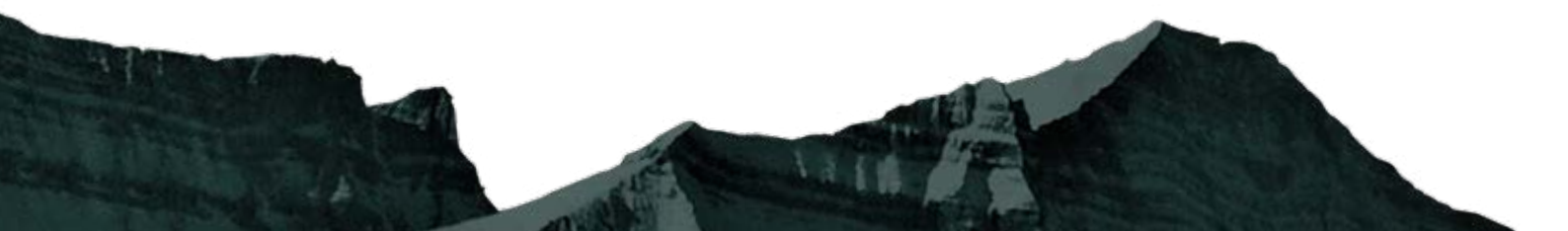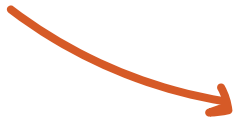
A typical day for a data scientist at Prolego

- Talking to clients about the nature of the business problems and current workflow.
- Reading blog posts, papers from arxiv and generally staying abreast of ideas emerging in areas relevant to our client work.
- Collaborating with your Prolego colleagues on new techniques or approaches.
- Training and evaluating models.
- Working with Prolego's engineering team on ways to move your solution into production.
- Refactoring your solutions.
- Taking your experimental code and turning it into Python methods and classes.

Compensation

The data science profession is evolving rapidly and we are continuously benchmarking our compensation packages to be competitive.
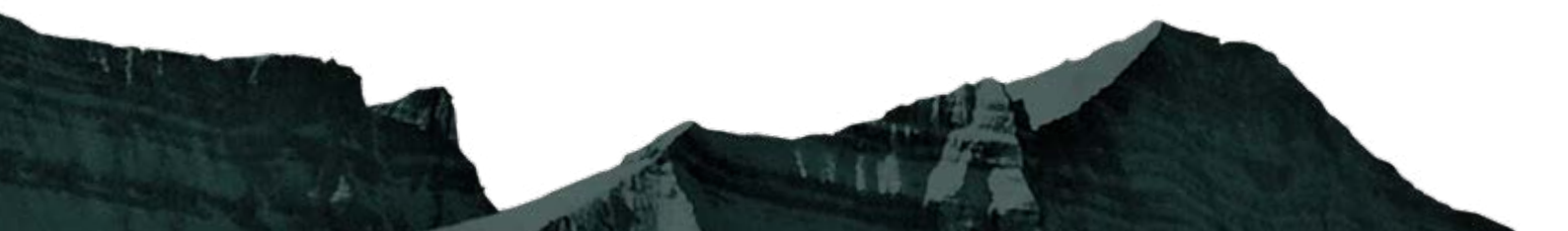
Current base comp ranges from $150K - $220K with annual bonuses between 10-20% depending on company and individual performance. Benefits details in our interview guide.

Read our interview guide

Before applying, take a moment and skim our interview guide. It will help you decide whether you are a good fit for what we do.