

Data Science and Research: MSc & PhD Internship Opportunities

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Company: Microsoft

Location: Herzliyya

Category: other-general

Overview

Every year, we welcome thousands of university students from every corner of the world to join Microsoft. You bring your aspirations, talent, potential—and excitement for the journey ahead.

At Microsoft, Interns work on real-world projects in collaboration with teams across the world, while having fun along the way. You'll be empowered to build community, explore your passions and achieve your goals. This is your chance to bring your solutions and ideas to life while working on cutting-edge technology. The internship is designed not only for you to do great work with the opportunity to learn and grow, but to experience our culture full of diverse community connections, executive engagement, and memorable events.

We're a company of learn-it-all rather than know-it-alls and our culture is centered around embracing a growth mindset, a theme of inspiring excellence, and encouraging teams and leaders to bring their best each day. Does this sound like you?.

Are you ready to join us and create the future? Come as you are, do what you love—start your journey with us today!

Qualifications

Currently pursuing MSc or PhD in Computer Science, Engineering, Mathematics, Statistics, Applied Sciences like Physics, or other quant-focused fields. Must have at least 3 semesters remaining to graduation (**graduation date: January 2026 and onwards**)

Relevant candidates will have at least 70% of the qualifications listed below:

Proficiency in using one or more programming or scripting language to work with data such

as: Python, C++.

Strong theoretical background in classical Machine Learning and Deep Learning.

Relevant publications in machine learning / vision / NLP / speech / data mining conferences (e.g., NeurIPS, ICML, ICAAPS, AAAI, ICLR, CVPR, ICCV, ECCV, ACL, EMNLP, NAACL RecSys, KDD, WSDM, ICDM)

Experience or course work applying ML to a type of data, including the application of ML algorithms on large scale data sets, and understanding of various ML algorithms and evaluations techniques.

Hands on experience in development of deep / machine learning algorithms in PyTorch/ TensorFlow for computer vision / speech / natural language processing applications.

Hands on experience with big data processing.

Experience in building industrial machine / deep learning systems.

Experience working in Cloud environment

Passion to learn from your peers, manager, and other stakeholders in the Data Science and AI domain.

Ability to interact with peers and stakeholders to drive product and business impact.

Strong interpersonal and communications skills.

Due to the duration of our internships and the fixed nature of our start dates, it is not possible for Microsoft to sponsor visas or work permits. To ensure a fair process for all, you must be legally permitted to work in Israel for the duration of the internship to be eligible.

(Legally permitted = Has citizenship or has been granted a valid visa or work permit which will cover you for the duration of your internship)

Visit our to learn more about the interview process and answers to commonly asked questions.

Responsibilities

Data Scientists and AI researchers at Microsoft help to improve the quality and experiences of our devices and services. We are looking for highly motivated and passionate Data

Scientists to design and apply rigorous scientific methodology and algorithms to improve Microsoft's devices, operating systems, and services. As a Data Scientist, you will provide unique insight into business and customer scenarios that cut across organizational boundaries and lead the growth of a data-driven culture within Microsoft.

As an AI expert, you will help push the state-of-the-art in computer vision, Natural language processing (NLP), speech recognition and speech enhancement, using Microsoft's extensive domain-specific knowledge, data, and compute resources.

As a Data Scientist or an AI researcher intern, you will help formulate approaches to solve problems using various algorithms and data sources. You will incorporate an understanding of product functionality and customer perspective to provide context for those problems. You will use data exploration techniques to discover new questions or opportunities within your problem area and propose applicability and limitations of the data. Successful Data Scientists will interpret the results of their analysis, validate their approach, and learn to monitor, analyze, and iterate to continuously improve.

You will develop real-world machine learning and deep learning algorithms in the domains of computer vision, natural language processing, recommender systems, and more.

You will increase productivity of ongoing research projects and help to productize them, publish research papers in top-tier machine learning venues and issue patents.

You will engage with peer stakeholders to produce clear, compelling, actionable insights that influence product and service improvements that will impact millions of customers.

As a Data Scientist, you will also engage in the peer review process and act on feedback while learning innovative methods, algorithms, and tools to increase the impact and applicability of your results.

Benefits/perks listed below may vary depending on the nature of your employment with Microsoft and the country where you work. Industry leading healthcare
Educational resources
Discounts on products and services
Savings and investments
Maternity and paternity leave
Generous time away
Giving programs
Opportunities to network and connect

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