I.T. Data Scientist (Open Rank: Senior - Principal)

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I.T. Data Scientist (Open Rank: Senior - Principal) - 38881 University Staff **Description**

University of Colorado Anschutz Medical Campus

Department: Ophthalmology

Job Title: I.T. Data Scientist (Open Rank: Senior - Principal)

Position #00844858 - Requisition #38881Job Summary:

The Quantitative Translational Imaging in Medicine Lab, located within the Division of Artificial Medical Intelligence of Department of Ophthalmology in the University of Colorado School of Medicine focuses broadly on quantitative and machine learning techniques in multiple modalities of medical imaging (e.g. fundoscopy images, OCT scans, MRI, CT, X-ray and digital pathology). We bridge the gap between machine learning research and clinical practice through fruitful connections with our clinical collaborators. Our research has potential to revolutionize treatment paradigms and transform the care of patients. If you join us, you will become an integral part of an interdisciplinary team that values collaboration and teamwork above all else.

This position will be working in the exciting and dynamic fields of deep learning and medical imaging. The main focus will be to develop novel deep learning algorithms to analyze medical imaging data (e.g., ophthalmology, radiology and pathology) and answer clinically impactful questions. The role will work with clinicians and end-users at the Division of Artificial Medical Intelligence within the Department of Ophthalmology of University of Colorado School of Medicine, to develop solutions to cutting-edge clinical questions. The candidate will also have the opportunity to pursue theoretical projects on novel datasets and collaborate with world-class clinicians at the University of Colorado and external collaborators. Data Scientists are expected to 'own' a project and make meaningful progress, leading to 2+ journal/conference publications per year.

Key Responsibilities:

- Discuss with faculty and senior researchers to identify research questions, discuss results, analyze alternative routes to ensure progress
- Conduct literature search prior to and throughout each research project to familiarize oneself with state of the art
- Implement code to run experiments to explore the research questions, analyze results
- Document work, including: documenting code, drafting manuscripts, prepare slideshow presentations for internal review and for conferences

Work Location:

Hybrid - this role is eligible for a hybrid schedule of 3 days per week on campus and as needed for in-person meetings.**Why Join Us:**

The Department of Ophthalmology is housed in the Sue Anschutz-Rodgers Eye Center on the Anschutz Medical Campus. This state-of-the-art facility is one of the largest eye centers in the country and serves not only patients in the Rocky Mountain region but also patients all over the world.

The technological innovations conceived and developed by departmental faculty have changed the practice of eye care throughout the world. Our educational programs train the next generation of leaders in ophthalmology. Our specialists have developed national and international reputations for excellence in routine and complex ophthalmic care. We have invested heavily in tracking our clinical outcomes and we are proud that our clinicians perform at the highest levels in their respective fields.

The mission of the Department of Ophthalmology is to be a nationally recognized department of ophthalmology by providing exemplary patient care founded on educational leadership, innovative research, and high ethical standards

Why work for the University?

We have AMAZING benefits and offer exceptional amounts of holiday, vacation and sick leave! The University of Colorado offers an excellent benefits package including:

- Medical: Multiple plan options
- Dental: Multiple plan options
- Additional Insurance: Disability, Life, Vision
- Retirement 401(a) Plan: Employer contributes 10% of your gross pay
- Paid Time Off: Accruals over the year
- Vacation Days: 22/year (maximum accrual 352 hours)
- Sick Days: 15/year (unlimited maximum accrual)
- Holiday Days: 10/year
- Tuition Benefit: Employees have access to this benefit on all CU campuses

- ECO Pass: Reduced rate RTD Bus and light rail service

There are many additional perks & programs with the CU Advantage.**Qualifications:**

Minimum Qualifications:

Senior Professional

- Bachelor's degree in computer science, management/computer information systems, computer engineering, information technology, or a directly related field from an accredited institution.
- 2+ years of professional experience as a machine learning researcher in an academic research institution or as a machine learning engineering/developer in a private company.
- Experience in coding using python as well as using machine learning libraries such as sklearn, opencv, pytorch (or tensorflow).
- An advanced degree (Masters or Doctorate) may be substituted for experience on a year for year basis if the degree is in a field of study directly related to the work assignment.

Principal Professional

- Bachelor's degree in computer science, management/computer information systems, computer engineering, information technology, or a directly related field from an accredited institution.
- 3+ years of professional experience as a machine learning researcher in an academic research institution or as a machine learning engineering/developer in a private company.
- Experience in leading machine learning projects with a focus on Computer Vision or Natural Language Processing
- Experience in coding using python, as well as using machine learning libraries such as sklearn, opencv, pytorch (or tensorflow).
- Experience in scientific writing as proven by a track record of scientific publications in journals or conferences
- An advanced degree (Masters or Doctorate) may be substituted for experience on a year for year basis if the degree is in a field of study directly related to the work assignment.

Applicants must meet minimum qualifications at the time of hire.

Preferred Qualifications:

Senior Professional

- Master's degree in computer science, data science, biomedical engineering, imaging or related discipline such as mathematics, engineering, or physics.
- Experience in working with medical images such as fundoscopy images, OCT's, MRI's, digital histopathology are desired.
- Experience in working with real-world medical datasets (e.g., images, EHR records, genetic data)
- Experience in using containerization software such as Docker, relational database and SQL, git (and github)

Principal Professional

- Master's degree or PhD degree in computer science, data science, biomedical engineering, imaging or related discipline such as mathematics, engineering or physics
- Proven track record of publications in medical informatics journals and conferences (medical imaging in Ophthalmology)
- Experience in mentoring junior roles/students
- Experience with the NIH grant types and experience contributing to grant writing
- Experience in working with medical images such as fundoscopy images, OCT's, MRI's, digital histopathology are desired.
- Experience in working with real-world medical datasets (e.g., images, EHR records, genetic data)
- Experience in using containerization software such as Docker, relational database and SQL, git (and github)

Knowledge, Skills and Abilities:

- Knowledge of basic concept of Machine Learning, Computer Vision, and Natural Language Processing (through course work, academic projects, or work experience)
- Ability to communicate effectively, both in writing and orally.
- Ability to establish and maintain effective working relationships with employees at all levels throughout the institution.
- Outstanding customer service skills.

How to Apply:

For full consideration, please submit the following document(s):

1. A letter of interest describing relevant job experiences as they relate to listed job qualifications and interest in the position
2. Curriculum vitae / Resume
3. Three to five professional references, including name, address, phone number (mobile number if appropriate), and email address

Questions should be directed to: Giacomo Nebbia
Giacomo.nebbia@cuaschutz.edu**Screening of Applications Begins:**

Immediately and continues until position is filled. For best consideration, apply by February 15, 2026.**Anticipated Pay Range:**

The starting salary range (or hiring range) for this position has been established as

- Senior Professional: $86,952- $110,602
- Principal Professional: $99,993- $127,192

The above salary range (or hiring range) represents the University's good faith and reasonable estimate of the range of possible compensation at the time of posting. This position may be eligible for overtime compensation, depending on the level.

Your total compensation goes beyond the number on your paycheck. The University of Colorado provides generous leave, health plans and retirement contributions that add to your bottom line.

Total Compensation Calculator**Equal Employment Opportunity Statement:**

CU is an Equal Opportunity Employer and complies with all applicable federal, state, and local laws governing nondiscrimination in employment. We are committed to creating a workplace where all individuals are treated with respect and dignity, and we encourage individuals from all backgrounds to apply, including protected veterans and individuals with disabilities.**ADA Statement:**

The University will provide reasonable accommodations to applicants with disabilities throughout the employment application process. To request an accommodation pursuant to the Americans with Disabilities Act, please contact the Human Resources ADA Coordinator at hr.adacoordinator@cuanschutz.edu.**Background Check Statement:**

The University of Colorado Anschutz Medical Campus is dedicated to ensuring a safe and secure environment for our faculty, staff, students and visitors. To assist in achieving that goal, we conduct background investigations for all prospective employees.**Vaccination Statement:**

CU Anschutz strongly encourages vaccination against the COVID-19 virus and other vaccine preventable diseases. If you work, visit, or volunteer in healthcare facilities or clinics operated by our affiliated hospital or clinical partners or by CU Anschutz, you will be required to comply with the vaccination and medical surveillance policies of the facilities or clinics where you work, visit, or volunteer, respectively. In addition, if you work in certain research areas or perform certain safety sensitive job duties, you must enroll in the occupational health medical surveillance program.

Application Materials Required: Cover Letter, Resume/CV, List of References **Job Category**
: Information Technology **Primary Location**
: Hybrid Department: U0001 -- Anschutz Med Campus or Denver - 20254 - SOM-OP GENERAL OPERATIONS **Schedule**
: Full-time **Posting Date**
: Feb 2, 2026 **Unposting Date**
: Ongoing Posting Contact Name: Giacomo Nebbia Posting Contact Email: Giacomo.nebbia@cuaschutz.edu Position Number: 00844858

To apply, visit https://cu.taleo.net/careersection/2/jobdetail.ftl?job=38881&lang=en

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