Transition from Academia to Industry

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Genentech

Genentech

A Member of the Roche Group

Genentech is a leading biotechnology company dedicated to pursuing groundbreaking science to discover and develop medicines for people with serious and life-threatening diseases.

Genentech's focused areas:



ONCOLOGY & CANCER IMMUNOTHERAPY



IMMUNOLOGY



INFECTIOUS DISEASES



NEUROSCIENCE



OPHTHALMOLOGY



RARE DISEASES



RESEARCH TECHNOLOGIES



DIGITAL & PERSONALIZED HEALTHCARE

Total 47 medicines and products on the market

Bioocology: 20

Immunology and ophthalmology: 7

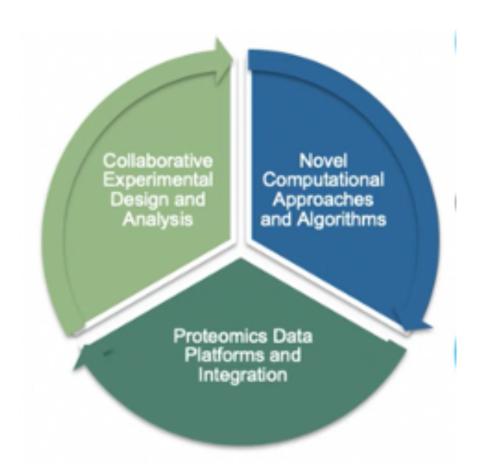
Metabolism & Primary care: 1

Neurology: 4

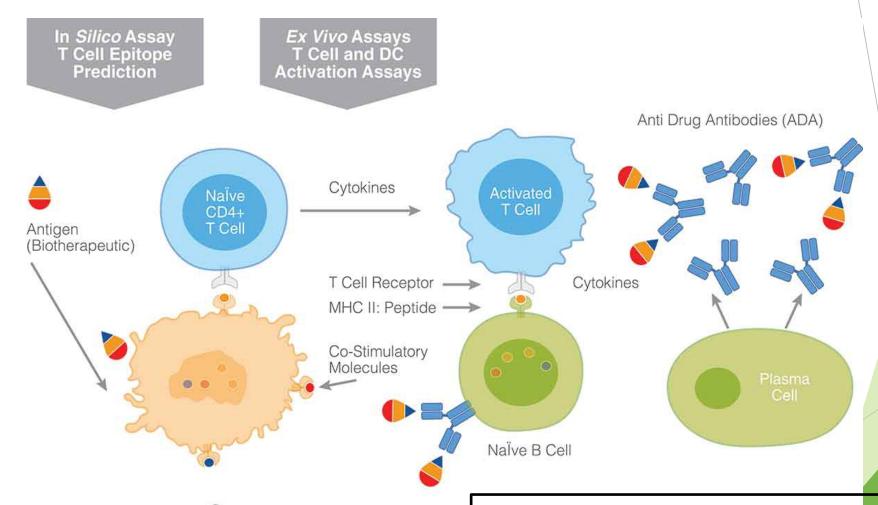
Virology & Specialty care: 6

Other products: 9

My role: Bioinformatics software engineer in Proteomics, Lipidomics and Next Generation Sequencing

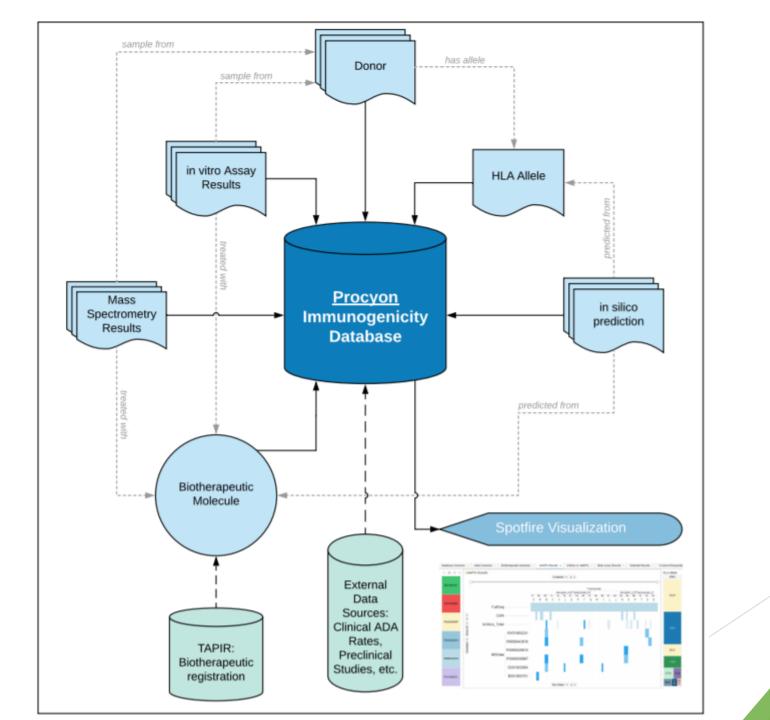


Example project - Preclinical immunogenicity risk-ranking Mechanistic model of ADA generation



Quarmby, Phung & Lill (2018) Exp. Rev. Proteomics. **9:** 733

Ex Vivo Assays MAPPS Many product-related, clinical and biology-related factors may also impact immunogenicity



About Me

Undergrad in Biotechnoly at Xiamen University in China

Ph.D. in Developmental Biology at Rutgers University

M.S. in Computer Science at Rutgers University

Insight health data science fellow

Bioinformatics Associate in Evotec & Genentech

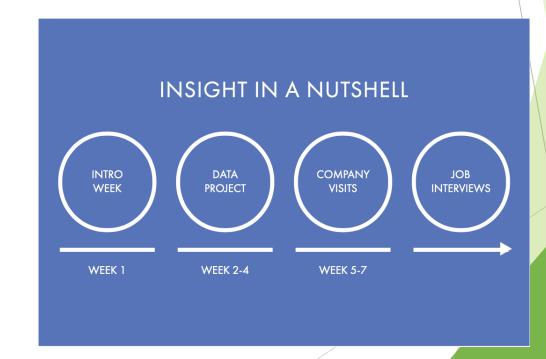
Bioinformatics Software engineer in Genentech



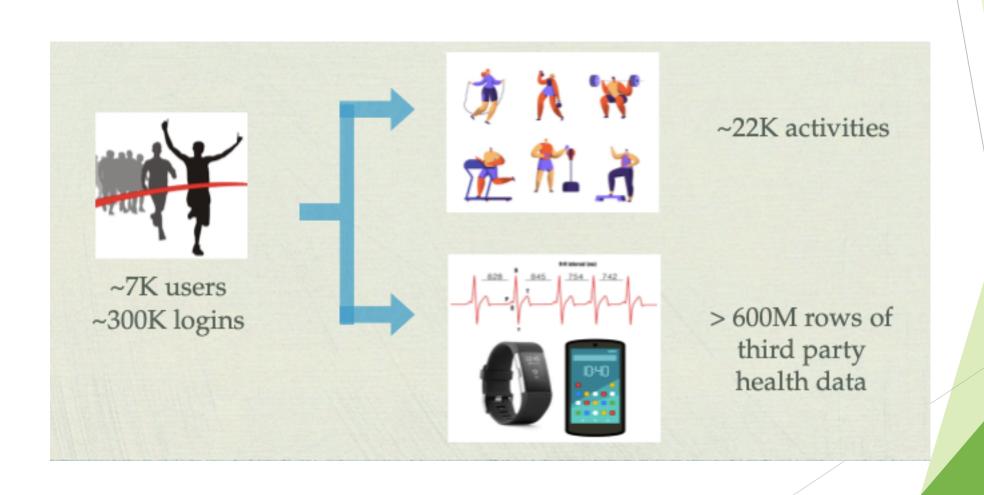


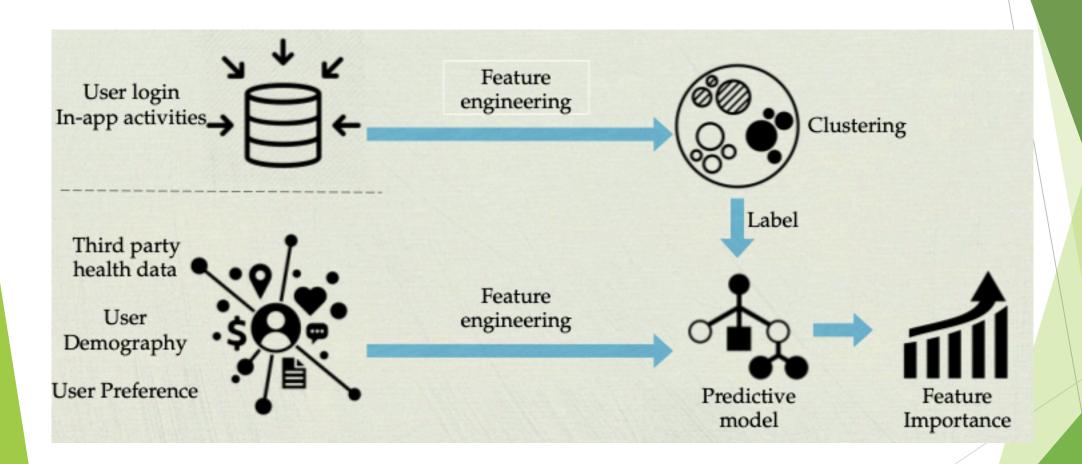
Health Data Science Fellow

7 weeks intensive program



Insight project - Segment users and predict user activities for a health app





Job searching:

1. Find the positions that interests you most

Talk to people in that position

Read job description

Read people's post

Prepare ahead

2. Networking

University resources

Alumni center

Linkedin

3. Write your CV

One page
Consider removing publications

Adjust for each company

Choose a clean resume format LaTex, Overleaf

4. Apply

Dream companys

Linkedin

Indeed

5. Interview

Behavior questions

Technical questions

Demo projects: within 10 minutes

Take-home assignment: the candidate is given a dataset and is asked to do "something" within normally a week

Technical questions:

SQL: https://www.w3schools.com/sql/default.asp

Coding: https://leetcode.com/

Statistics/Probability

Machine learning: Linear/Logistics Regression, Decision Trees, Ensemble Methods

Explaining your research and other projects and how that might be relevant experience

Job openings:

Virtual Intern:

https://careers.gene.com/us/en/job/GENEUS202201104286EXTERNALENUS/

Intern-Virtual-gRED-Microchemistry-Proteomics-and-Lipidomics

Senior Research software engineer:

https://careers.gene.com/us/en/job/GENEUS202110130017EXTERNALENUS/

Senior-Research-Software-Engineer

Senior Bioinformatics Scientist:

https://careers.gene.com/us/en/job/GENEUS202110130016EXTERNALENUS/

Senior-Bioinformatics-Scientist-Proteomics

Thank you!