Hello,

Velo3D

I’m Aagam

I want to intern with you.

Why?

I want to be cool like you.

I love how you are constantly innovating

What do I bring to the table?

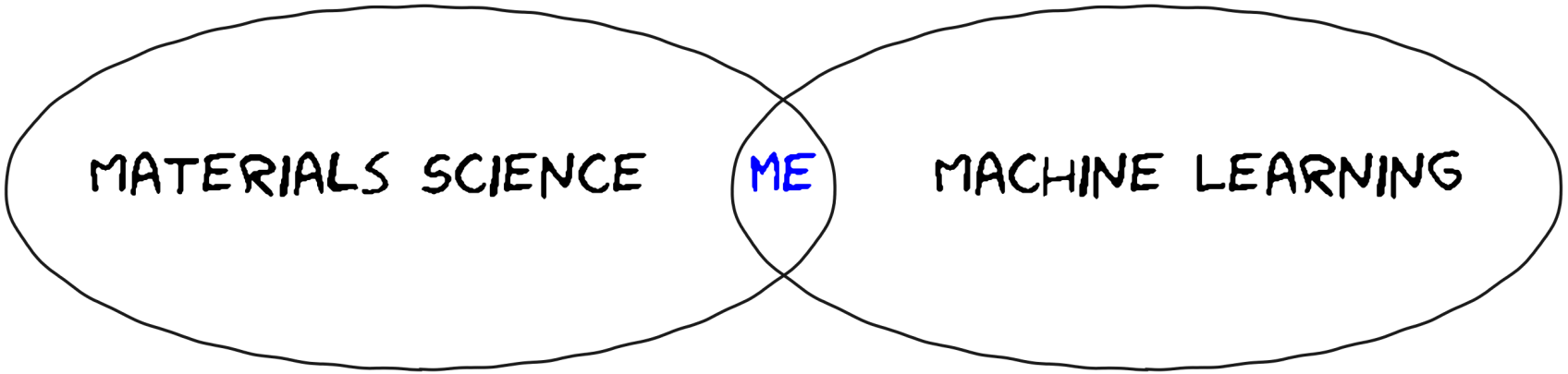
I like learning new things.

I do not rest till I find a solution to the problem.

Some people (my friends) think it is a disease

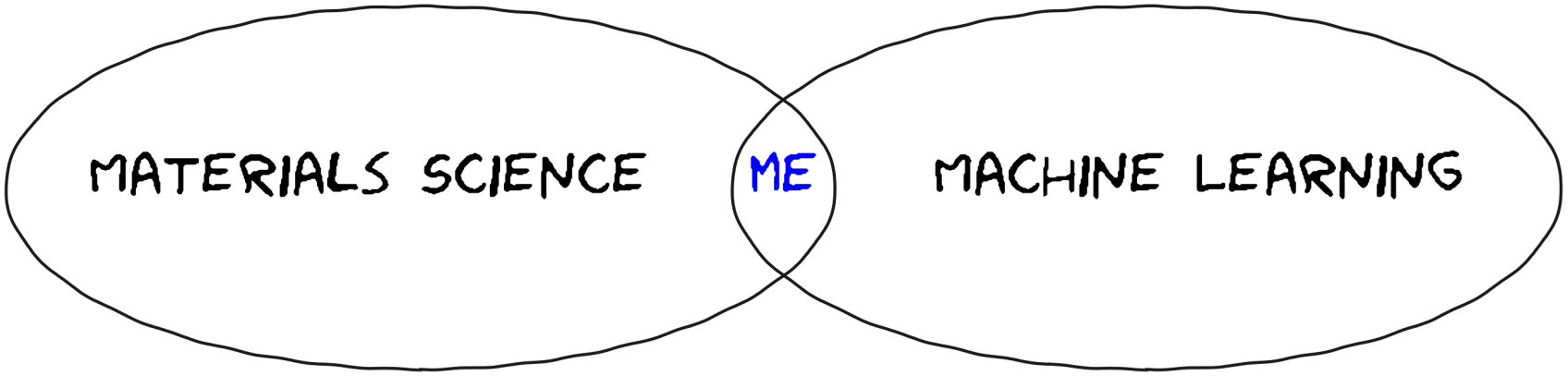
I can deal with pressure and deadlines

I POSSESS MANY SKILLS



- 2D materials synthesis
- Additive manufacturing
- Composite manufacturing
- Bio-molecular self assembly
- Density functional theory

- Computer vision
- Deep neural networks
- Active learning
- Bayesian statistics
- Data analysis



Characterisation:

SEM, Raman, XRD, UV-Vis, FTIR, DSC

Languages:

Python, Bash, MATLAB, JS

Software:

Fusion 360, LabVIEW, JMP, Quantum ESPRESSO

Machine Learning:

Tensorflow, Scikit-learn, PyTorch

Additive Manufacturing:

LPBF, FDM, SLA

Tools:

PyQt5, SQLAlchemy

Who am I?

University of Illinois Urbana-Champaign

Ph.D. in MatSE (2024, *expected*); GPA: 3.56/4

I work on using machine learning to optimise graphene synthesis and laser powder bed fusion

Selected as an NSF Research Trainee in the DIGI-MAT program

Indian Institute of Technology Gandhinagar

B.Tech. in MatSE w/ Honours (2019); GPA: 8.49/10

Worked on tuning self assembly of biomolecules to get desirable shapes

Awarded Director's Silver Medal for outstanding overall performance in Materials Science & Engineering.

I built a filament winder capable of producing prepreg and winding flywheels at TAMU

I performed DFT calculations on HPCs to study the adsorption of Nitrogen Monoxide gas on Au, Ir, Rh surfaces at JAIST

What did I learn from these different experiences?

Learnt to combine concepts from (seemingly) unrelated domains

Learnt that research often needs patience

Learnt to deal with failure

Learnt that everyone around you knows something that you don't

Sounds profound

I am looking for a co-op for 6-7 months starting February 2023

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My conventional resume: https://bit.ly/3t6eIcU
Inspiration source: https://bit.ly/3TbQnNa