

FullBrain

**Our journey: From
impossible to inevitable**





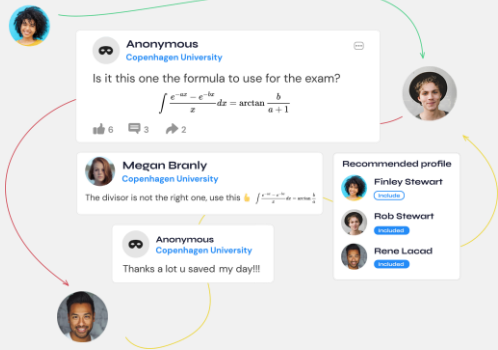
FullBrain

The first social network for learning




With FullBrain you can


- 1 Get better answers than Google from your peers
- 2 Follow your friends and see how they learn
- 3 Get your dream job in tech




Resources


**A URL or file
explaining something**


 Source ▶ Foundations of Databases



Emma Aniston 
MSc Student at DTU

 **HW3 - Logical Design - Report Notes**
16 Views · Originally made on 4/5/2018 · For lectures of prof. Ferro

database ER Model logical design normalization

 Report **How to use this source:** Read pages 4-17 and work through the examples

 5.00 out of 5
Rate here ⓘ 3 reviews


 2 Comments  Share

Posted on: 2021/11/24

Rate and discuss

**Save
to playlist**




How do users interact?

 **Jonas Bregher**
MSc Student at DTU



Activation function in neural networks?


I'm a bit confused about activation functions. What does this equation mean?

$$\phi(v) = \exp\left(\frac{\|v - c\|^2}{2\sigma^2}\right)$$


 Like  Comment  Share




Ask questions

 Source Foundations of Databases  **Emma Aniston**
MSc Student at DTU


 **HW3 - Logical Design - Report Notes**
16 Views - Originally made on 4/5/2018 - For lectures of prof. Ferns


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Share and use resources

 **Emma Aniston** answered this question

 **Jonas Bregher**
MSc Student at DTU

Activation function in neural networks?

I just started learning neural networks. I'm a bit confused about activation functions and hyperparameters. Can somebody help

Follow peers and see how they learn



Team



Mirko Biasini
CPO

MSc CS & MSc AI,
UniPD & DTU
Previously at
Microsoft



Vittorio Carmigani
CTO

MSc CS & MSc AI,
UniPD & DTU
Previously at Microsoft



Panos Filianos
CEO

MSc AI, DTU
Founded own ML
trading firm

Who were we?

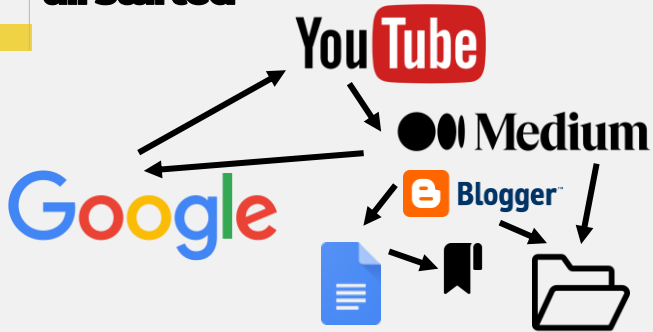


ML firm

**#1 rank Google result
for engineering notes**

**Won X-Tech (then Hard
Tech) Entrepreneurship
Fall 2018**

**Where it
all started**



**Why is learning ML
such a mess?**

FullBrain

The screenshot displays the FullBrain website interface. At the top, there is a navigation bar with the FullBrain logo, a search bar, and a user profile for 'Pavlos Filian...'. The main content area is titled 'Normal Distribution' and is divided into three columns. The left column, 'Search results', lists various statistical topics such as Probability Distribution, Geometric Distribution, Binomial Distribution, Multinomial Distribution, Bernoulli Distribution, Distribution Function, Hypergeometric Distribution, Database Normalization, and Exponential Family. The middle column, 'Normal Distribution', provides a brief overview and links to 'Explore requirements', 'Probability Distribution', 'Mean', 'Standard Deviation', and 'Probability Density Function'. The right column, 'Learn what Normal Distribution is with the following links', features two video resources: 'Introduction to normal distribution' and 'Normal distribution in Statistics', both by Mirko Biasini. Each video entry includes a 'How to use this resource' section, a 'What you need before' section with links to related topics, and user feedback metrics like ratings and reviews.

Repos of resources

FullBrain

Full time MSc

**Jobs
Jobs
Jobs**

Work 7/7

**End the month
with Odkk**

**Not enough
time**

DTU
LearnT



**Your passion can
be a course?**

Helle & Khalid
Khalid & Helle

DTU Special course

x2

Advanced Project in DM

Leading to...

The theses of course

Design and Implementation of
**Gamification in a Social e-Learning
Platform** for Increasing Learner
Engagement

Mirko



Design and Development of an
**Information Retrieval System
on an Educational
Social Network**

Vitto



A novel **Deep Learning ranking
model** to order posts on a social e-
learning platform

Panos





**Now it's
a business**

**But we need money to
exist and establish a
company**

A-kasse for a while?

All in on FullBrain

Personal funds

Time

Focus

No support net
vs 40k+ starting



**Innofounder
Graduate**

IFG C8
We're in
baby



Innovation Fund Denmark

Cohort 8

March 2021 - March 2022

Innofounder
Graduate

**All the
support we
can get**

LEARNT DTU

Centre for Digital Learning Technology



**Innofounder
Graduate**



KØBENHAVNS UNIVERSITET
DATALOGISK INSTITUT



VISION DENMARK

Member of

**EdTech
Denmark**





**But
lots of
failure also**

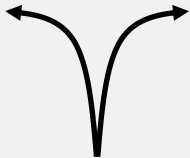


and lots of others...



Current challenges

EdTech Scalable



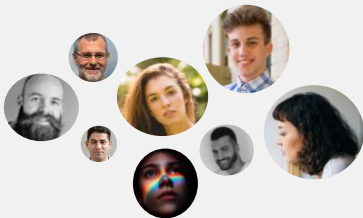
EdTech & Scalable business model



How do you reach students?

Top down not working

**Where are
you now?**



**1200+
users since
Sept. 2021**



**Finding partner
courses & companies**

**To connect them with top
talent**



**Let's discuss
how we can help**

**Get in touch
panos@fullbrain.org**



**Now it's
a business**

**Hybrid
recommendation
model**



**CF trained on explicit and
implicit feedback [1]**

**Recommendation
aggregation for universities
and courses [2]**

**Gamified preference
learning [3]**

[1] Y. Hu, Y. Koren and C. Volinsky. "Collaborative Filtering for Implicit Feedback Datasets." 2008 Eighth IEEE International Conference on Data Mining, 2008, pp. 263-272. doi: 10.1109/ICDM.2008.22.

[2] Shlomo Berkovsky and Jill Freyne. 2010. Group-based recipe recommendations: analysis of data aggregation strategies. In Proceedings of the fourth ACM conference on Recommender systems (RecSys '10). Association for Computing Machinery, New York, NY, USA, 111-118.

[3] Balakrishnan, Suhril & Chopra, Sumit. (2012). Two of a kind or the ratings game? Adaptive pairwise preferences and latent factor models. Frontiers of Computer Science, 6, 197-208. 10.1007/s11704-012-2871-7.

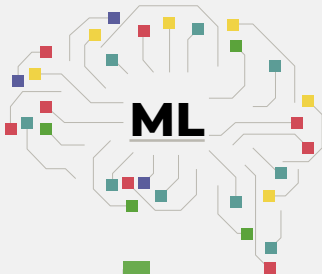
Learning as a superpower

What is something new to learn?

Based on what I know

Who is someone to get connected to?

To learn together



What resources do my peers love?

What are 10x learning insights that few have?

To boost my learning

Challenges



Low data - cold start

Research starts from 100k data points [1]

[1] Kuźelewska U. (2020) Effect of Dataset Size on Efficiency of Collaborative Filtering Recommender Systems with Multi-clustering as a Neighbourhood Identification Strategy. In: Krzhizhanovskaya V.V. et al. (eds) Computational Science – ICCS 2020.

What's next

Present and
future

Data analysis and
model exploration

CF and content
based baselines
(in progress)

Hybrid model for
resources
recommendation

Gamified tool tweaking
model by pairwise
comparisons