

but before they can solve problems such as these, supekar needs to understand how to train the network. impressively, it turns out that the group's work may have relevance for developing successful training methods. training a network is much like training an artificial-intelligence program. whether the program is built from code in the network-code, as in the stanford team's work, or from code stored in the image file, as in butte's work, the task is the same: break the input into discrete bits, make sense of them, and produce meaningful output. the neural network learns how to make sense of patterns, either in real time, as in the case of the stanford team's work, or over many iterations, as in butte's work. in both cases, the network is presented with thousands of images and is able to find patterns that allow it to classify the images. in butte's network, each neuron holds a numeric value. some neurons are binary, meaning that they hold only zero or one, and others are analog, meaning that they contain continuous values between zero and one. butte showed that a network of these neurons can be trained to recognize the patterns in a given image, such as handwriting, handwriting with distortion, the outlines of a face, and so on. then, when presented with a new image, the trained network can take the patterns it has learned and begin searching for what it needs to see in the new image. radajic, m., chaban, s., watanabe, h. et al.. 11-beta-hydroxysteroid dehydrogenase 1 deficiency: a potential risk factor for dementia development. nejm 381, 944-952 (2009). x-ray crystallography to identify inhibitors against the enzyme that would have selective cytotoxic effects on cancer cells.



baykara, m., auer, m., eichele, f., schlaak, j., ryali, s., schurmann, c., priebe, c., beykirch, a., poursabzi, a., supekar, k., menon, v. (2022). combined functional and anatomical mri identify gyral, cerebellar and cortical networks associated with different executive control functions in autism. brain, 404-15. pubmed pdf html google scholar the basic theory of the heart-lung-body and brain-heart-body-mind connection is increasingly being accepted. measuring the breathing, heart rate, blood pressure, and body temperature is the basic test of homeostasis among the organs,

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and when these levels become abnormal it is obvious that the heart-lung-body-mind connection becomes compromised. yuan, x.c., dai, b., liu, d., yan, l., li, r., wang, j., gao, j., ning, j., zhou, p., turek, b. (2022). the forest amidst the trees: using prior knowledge to make predictions and discover latent features in high dimensional data. arxiv preprint arxiv:1911.01057v2. arxiv google scholar but these fields are hardly disconnected. indeed, butte says, "i don't really know what is the pure bioinformatics student." yet, like many researchers in medical informatics, butte is concerned about the general problems of highly multi-disciplinary

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education and training, and how to provide a unified perspective. unlike a pure computer science or biology background, an undergraduate bioinformatics program typically has a course in data mining and basic statistics, and often offers a few courses on genetics and genomics. the hybrid background of students from math and computer science provides an opportunity to learn about biology in new ways, providing them with a broader biological education, along with the ability to ask fundamental biological questions about the data and systems their fellow students are studying. butte favors such a dual education, and as a bioinformatician who

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has trained a generation of students for the past 25 years, he says he is often pleasantly surprised with the quality of the work that his hybrid students produce. 5ec8ef588b

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