

April 18, 2021

AI & Careers

Informational
Webinar for
Metvy Learn

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Today's Agenda

1 Introduction

2 Evolution of AI

3 Careers in AI

4 Career Advice

5 Q & A

Introduction

- AI Team Lead, **Swiggy**
- AI Scientist, **Amazon Alexa AI**
- Fellow in Neuroscience, **Oxford**
- PhD Neuroscience, **UCL**
- MSc Neuroscience, **Oxford**
- BE Electronics, **DCE (DTU)**
- Founder, **EduChroma** (Career Mentoring)
- Founder, **Timing Research Forum** (Research)
- Angel **Investor** (Tech startups)

Evolution of AI

Deep Learning Era (2008–present)

- 1 More **data**, cheaper data storage, cheaper **compute**, hardware, **cloud**
- 2 **GPU** processors for AI computations
- 3 **Datasets & Benchmarks** (ImageNet) & **Pretrained** models – ResNet, BERT
- 4 **Transfer learning** from pretrained models to downstream applications
- 5 Train increasingly **big models** e.g. GPT3 that show few-shot learning
- 6 Techniques to overcome cost, time and effort for manual **data labeling**
- 7 **Narrow AI** use cases in industry: from supervised to other forms of learning
- 8 AI applications for **edge** devices like mobiles, wearables, IoT devices
- 9 Building AI models that respect **data privacy** and trained on encrypted data
- 10 Incorporating **fairness, ethics, trust, explainability, ESG** into AI models

Careers in AI

Data, Models and Engineering

1

Data: Analytics, Visualisation, Engineering, Modeling, Pipelines

2

Models: Novel algorithms and research, deploy scalable models, publications

3

Infrastructure: DataOps, DevOps, MLOps, Tools, Workflows, Deployment

4

Management: Use cases, roadmap, product, project, team, \$ impact

5

Startup: solve real user/enterprise problem, access: data, compute, talent

6

Skills: Statistics, Math, Python + Libs, ML/DL + Libs, DB, Domain expertise

7

Skills: Algorithms, Scientific method, Curiosity, Experiments, Read, Write

8

Skills: Maintaining, versioning, monitoring code, data & models, tools

9

Skills: SME in ML/AI, Product mindset, Leadership, Soft skills, Empathy

10

Skills: Intuition for problem & market, quick iteration, sales, vision, leadership

Career Advice

Jobs in AI, Career Decisions, Startups, Work & Culture

1

Develop a learning habit – read blogs, papers; listen to podcasts; talk to ppl

2

Build domain expertise for fields of interest eg ecommerce/finance/edu

3

AI is more than coding & modeling; understand how it is built in top cos.

4

Optimize for jobs/companies where you can continuously learn and grow

5

Early stages: focus on learning and becoming an expert, money will follow

6

Select companies with inspiring manager, solid team and AI maturity

7

First jobs/companies critical to career dev; learn from the best ppl

8

Evaluate culture in teams: avoid high salary jobs if poor culture/leadership

9

Plan your career: short-term (1-2 yrs) and longer term (4-5 yrs)

10

Be open to change and learn & evolve and plan career as life-long marathon

Reading

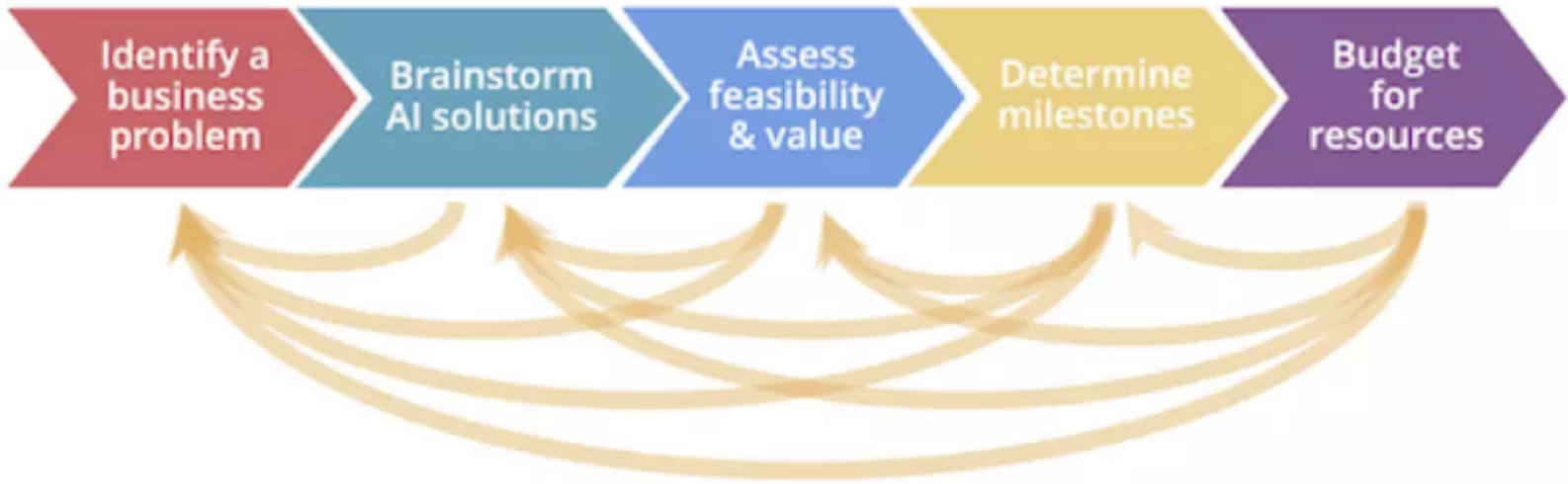
sundeepteki.org/blog



Why Corporate AI projects fail? Part 1/4

Tldr: Corporate AI failures can be ascribed to poor Intuition, Process, Systems, People

Medium / Sundeepteki / Mar 15



Why Corporate AI Projects Fail? Part 2/4

Tldr: Poor processes and culture can derail the success of many an exceptional AI team.

Medium / Sundeepteki / Apr 14

How to Build Machine Learning Teams That Deliver



How to Build Machine Learning Teams That Deliver

In this article, I have documented the best practices and approaches to build a productive Machine Learning team that creates positive business impact and generates economic value within corporate entities, be it startup or enterprise.

neptune.ai / Sundeepteki / Apr 14

Q & A

Slides:

sundeepteki.org/talks.html

Connect:

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