

Contents

1	Introduction to Our Book	5
2	About Us	
	2.1 Jingyi Wang	8
	2.2 Kuigang Zhang	9
	2.3 Michael Czapp	10
	2.4 Xinqian Dai	11
	2.5 Yousuf Altameemi	13
3	What is Artificial Intelligence (AI)?	15
4	AI Tools for Job Searching	17
5	Resume and Cover Letter Optimizers	19
	5.1 Resume.com	19
	5.2 Jobscan	19
	5.3 Resunate (replace)	20
	5.4 Jasper AI	20
	5.5 Rezi	20
	5.6 Cover Letter Simple.ai	20
6	Student Practice Interviews	21
7	Automated Applications	23
8	What Are Applicant Tracking Systems (ATS)?	25

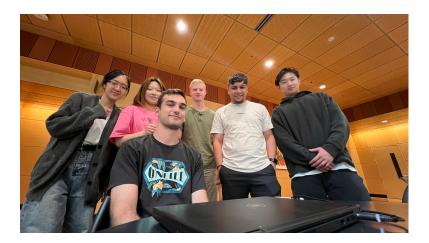
4	CONTENTS
9 Recruiting Chatbots	27
10 Resume and Cover Letter Scree	ening 29
11 Video Interview Assessments	31
12 Skill Assessments	33
13 Predicting Candidates' Success	35
14 Conclusion	37
15 Our Working Process	39
16 References	41

Introduction to Our Book

For students at the Stephen M. Ross School of Business, the primary goal by graduation is to have a full-time job offer at a company and location that makes them excited to start their professional careers. Throughout the fall and winter semesters, recruiting is an incredibly time-consuming and stressful process, so students must use their time and effort efficiently to maximize their job opportunities. However, the recent and rapid progression of artificial intelligence (AI) tools has reshaped the recruiting landscape. Therefore, students need to understand how they can use these tools to their advantage and how recruiters may be using AI throughout the recruitment process.

Our book will provide a comprehensive overview of these AI tools. We will approach this from two perspectives: students' and recruiters'. For students, we discuss how they can use AI job finders, resume and cover letter optimization, practice interviews, and automated applications to support their professional endeavors. On the other hand, we discuss what AI tools recruiters may use, like applicant tracking systems (ATS), resume and cover letter screening, interview assessments, skill assessments, and predictive analytics. Then, we suggest how students should tailor their presentation of themselves to fit what these AI tools look for.

About Us



Our team, **Team Steve**, is driven by Steve's desire for a website that describes how new AI Tools are used in the recruitment process. For context, Steve (as seen in the black O'Neill shirt in the front left) is a student here at the Stephen M. Ross School of Business who is NOT in our project team. When deciding our team name, we thought it'd be a great idea to name it after the first person we encounter. We happened to run into Steve outside of our classroom, and the rest is history.

2.1 Jingyi Wang



Background

My name is Jingyi (Vera) Wang, currently a Master of Business Analytics student at the University of Michigan Ross School of Business. In May 2023, I graduated from Boston University with a concentration in Finance and Business Analytics. From my previous academic and internship experiences, I found my passion for business analytics. That's the reason why I decided to pursue a graduate degree in order to help me specialize in my area of interest and enrich my experience and knowledge in the field.

Experience

My experience is mainly composed of internships, projects, and case competitions. In 2021, I interned at Accenture as a management consulting intern. I managed project plans, conducted data analysis, and facilitated platform testing sessions for clients to improve the efficiency and accuracy of their online platform. In 2022, I interned at Vantage House Media as a finance intern. I generated comprehensive financial reports and provided stakeholders with valuable recommendations and potential VC prospects based on data analysis. In addition, I was a quantitative financial analyst intern at Shenwan Hongyuan Securities, where I built python models to select top-performing stocks and assess fund managers' performance.

Fun Facts

• I have two pet guinea pigs

- I never watch horror movies
- I love photography, and I have previously operated a photography social account of my own

2.2 Kuigang Zhang



Background

My name is Kuigang Zhang, and I go by KG. I graduated from UCLA with a Data Science major and an Accounting minor in June 2023. Programming and business have been two areas that I am passionate about; therefore, I decided to pursue a Master of Business Analytics here at the University of Michigan Ross School of Business. I look forward to enriching my toolbox, meeting like-minded people, and getting the most out of the program.

Experience

I have four years of experience in programming, and have completed a number of Kaggle Competition as well as machine learning projects, and I have worked as an data analyst intern at the Shanghai Research Institute of Building Science Academy, where I enabled household energy consumption forecast in Shanghai for managing and planning urban energy utilization, covering a wide range of locations and building types. I have also worked as a data analyst intern at Lin Zhen Trading, where I developed an integrated data-driven retail supply chain management app in support of the bedding items business.

Fun Facts

- I was born and raised in Africa
- I can deadlift 400lbs
- I speak 5 languages

2.3 Michael Czapp



Background

My name is Michael Czapp, and I am currently a Master of Business Analytics (MBAn) student at the University of Michigan Ross School of Business. In April 2023, I graduated from the College of Engineering here with a Bachelor of Science in Industrial & Operations Engineering. I knew I wanted to specialize in analytics, so starting a graduate program right after graduation made the most sense. It also allowed me to have an extra year at the University of Michigan and stay in my home state, and I plan to make the most of it!

Experience

My experience primarily consists of two summer internships. In 2021, I interned at DTE Energy in Detroit, MI as a Continuous Improvement Intern. I got to develop Power BI dashboards, lead a time study analysis on claim investigations, and support the execution of a pilot study at one of the company's sites. In 2022, I interned at Boston Scientific Corporation as a Global Supply Chain Consulting Intern, which was essentially an internal consulting role. I built

automations, helped plan a global virtual conference, and used Excel to identify opportunities to decrease shipping costs to customers, all of which provided me with great experience in using data to discover meaningful insights to share with stakeholders.

Fun Facts

- Both my older brother and sister studied industrial engineering in undergrad
- I play hockey as both a goalie and a skater
- I've lived in the state of Michigan for my entire life

2.4 Xinqian Dai



Background

Hello! My name is Xinqian (Demi) Dai, and I come from the beautiful province of Heilongjiang, China, where I was born and raised. In 2019, I embarked on my exciting journey by enrolling at the University of Massachusetts Amherst for my undergraduate studies. I graduated with a double major in Marketing and Statistics in May 2023. My interest in Marketing has deep roots that extend back to my childhood days when I found myself more fascinated by the commercial inserts of a washing powder than the animated series on TV. Currently, I am intrigued by Customer Analytics, Advertising Effectiveness, and Digital

Marketing, and I'm eager to delve deeper into these areas. Looking ahead, my post-graduation aspirations involve entering into the MarTech (Marketing Technology) industry. Armed with the knowledge and skills from the MBAn program, I aim to make a significant impact by applying data-driven strategies and innovative marketing technologies.

Experience

During my time at UMass Amherst, I engaged in a diverse range of research experiences and marketing projects. As a Marketing Research Assistant at the UMass Ombuds Office, I analyzed data from over 300 undergraduate student visitors, studying variables like gender and major to identify successful conflict resolution strategies. Utilizing R and Python, I applied regression models to estimate meeting times and understand the impact of visitor demographics on appointment durations. During my participation in the Research Experiences for Undergraduates (REU) Program, I conducted full-time research on Bayesian parameter estimations, highlighting the effectiveness of Bayesian models over traditional linear regression models. Additionally, as a Research Assistant in the UMass Marketing Department, I analyzed customer reactions to visual advertisements for various product categories and conducted experiments to evaluate the effect of different headbands on students. As a Strategist for the UMass AdLab, I designed customized questionnaires and implemented successful advertising strategies, resulting in a significant increase in orders for local companies. These experiences have shaped my passion for business analytics and my dedication to data-driven research and strategic planning.

Fun Facts

- A24 is my favorite film production company
- I'm better at cooking than baking:))
- My hometown holds the International Ice and Snow Festival every winter

2.5 Yousuf Altameemi



Background

I was born and raised in Baghdad, Iraq, but now I live in the metro Detroit area. Besides my regular job, I love doing photography as a hobby. I enjoy capturing moments and emotions with my camera, and it lets me see the world in a whole new way. Additionally, I have a knack for analytics; I enjoy working with data, finding patterns, and gaining valuable insights from it. This analytical mindset helps me both in my photography and other aspects of life.

Experience

I graduated from Wayne State University in 2022 with a double major in Finance and Business Administration. For the past three years, I have been working as an IT Business Analyst at DTE Energy, where I have been involved in various analytical projects within the IT department. My responsibilities include analyzing data, identifying patterns, and providing valuable insights that contribute to the company's IT strategies and decision-making processes. I have also had the opportunity to collaborate with external consultants, showcasing my ability to work effectively with diverse teams and stakeholders. With a strong analytical mindset and a background in finance and business, I am well-equipped to contribute positively to any project or team I am a part of.

Fun Facts

- I am a part-time photographer, I shoot portraits, events and weddings $\,$
- I enjoy playing soccer, my friends and I play twice a week
- I collect vintage Ralph Lauren clothing

What is Artificial Intelligence (AI)?

Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include expert systems, natural language processing, speech recognition and machine vision (1).

The functioning of AI involves the processing of extensive labeled training data, identifying correlations and patterns within the data, and using these patterns to make predictions about future states. For instance, a chatbot can learn to produce lifelike conversations with people after being trained on text examples, while an image recognition tool can accurately identify and describe objects in images through the analysis of millions of examples. Generative AI techniques have also shown significant progress in generating realistic text, images, music, and other media.

AI programming revolves around cognitive skills that encompass:

- 1. Learning: The acquisition of data and creation of algorithms that convert it into actionable information, providing step-by-step instructions for specific tasks to computing devices.
- 2. Reasoning: The selection of appropriate algorithms to achieve desired outcomes.
- **3. Self-correction:** Continuously refining algorithms to ensure optimal and precise results.
- **4.** Creativity: Utilizing neural networks, rules-based systems, statistical methods, and other AI techniques to generate novel images, text, music, and ideas.

The significance of artificial intelligence lies in its potential to revolutionize how we live, work, and engage in leisure activities. AI has found effective applica-

tions in automating tasks traditionally performed by humans, such as customer service, lead generation, fraud detection, and quality control. Particularly in repetitive and detail-oriented tasks, AI often outperforms humans in terms of speed and accuracy, as demonstrated in analyzing vast numbers of legal documents for accurate field completion. The processing capabilities of AI enable enterprises to gain valuable insights into their operations that were previously inaccessible.

The proliferation of AI tools, especially generative AI, promises transformative impacts across various domains, including education, marketing, and product design. Leading companies like Alphabet, Apple, Microsoft, and Meta have integrated AI technologies to enhance their operations and maintain a competitive edge. For instance, Google, a subsidiary of Alphabet, employs AI at the core of its search engine, Waymo's self-driving cars, and Google Brain, the pioneer behind the transformer neural network architecture that drives recent advancements in natural language processing.

Overall, the advent of AI not only drives efficiency improvements but also creates unprecedented business opportunities, as evidenced by Uber's success in leveraging computer software to connect riders with taxis and becoming a Fortune 500 company. The ongoing progress in AI holds the potential to shape a dynamic and transformative future across various industries.

AI Tools for Job Searching

Resume and Cover Letter Optimizers

In today's competitive and ever-changing job market, it is crucial to have a well-crafted resume and cover letter to stand out from competitors and gain the opportunity to catch employers' attention. With the recent advancements in AI tools, students can now leverage technology to optimize their resumes and cover letters effectively. Here are some popular AI resume and cover letter builders:

5.1 Resume.com

Resume.com is a free online resume builder that helps you create a resume tailored to your skills and experience. One outstanding feature of Resume.com is to assist you in pinpointing the most relevant keywords for your target positions, which is essentially beneficial when applying for positions that require specific technical or professional skills and abilities. In addition, it also provides various customizable templates and editing tools where you could easily edit your content based on your individual needs. It also provides a resume evaluation service by giving personalized feedback on your resume.

5.2 Jobscan

Jobscan is a popular AI resume builder that analyzes your resume and provides suggestions for improvements based on the description and keyword. It has the unique feature of scanning a resume against a job description, offering you a detailed report about how your skills and experience are being matched with areas where you can enhance your alignment with the role.

5.3 Resunate (replace)

The AI-powered resume builder Resunate automatically generates a well-formatted and optimized resume tailored to any position you desire. It has an easy-to-use user interface that helps you customize your unique resume with just a few clicks. Resunate provides feedback and personalizes every resume with effective keywords and phrases such as "attention to detail" and "collaborative environment." In addition, it offers various other features such as direct competition tracking, targeted real-time feedback, and cover letter creation tools, which makes it a perfect user-friendly platform for job seekers to create a high-quality and professional resume.

5.4 Jasper AI

Jasper AI is a big hitter in the AI writer space to help you with cover letter writing. By using its personal bio template, Jasper quickly generates a cover letter highlighting your qualifications and experience and customizes your document based on your job requirements. Additionally, you can explore different tones of voice to match the company's style and use Jasper to discover various synonyms, phrases, and sentences to further personalize your cover letter.

5.5 Rezi

Rezi is a professional AI covert letter generator. It provides over 250+ cover letter samples, which allows job seekers to begin the process of creating cover letters. After analyzing your resume, Rezi makes references from your resume experiences and how they fit best for the job role in your cover letter. If you enter the ideal company details and specific skills and position highlights, Rezy will generate a tailored cover letter in seconds.

5.6 Cover Letter Simple.ai

Cover Letter Simple.ai is unique from other cover letter tools mentioned above as it focuses on generating unique and job-specific cover letters. After entering your ideal job title, it searches billions of data points to retrieve relevant information for the job, such as expected skills and accomplishments. It then generates impressive cover letters that help you stand out from other applicants.

Student Practice Interviews

Automated Applications

What Are Applicant Tracking Systems (ATS)? $26 CHAPTER \ 8. \ \ WHAT \ ARE \ APPLICANT \ TRACKING \ SYSTEMS \ (ATS)?$

Recruiting Chatbots

Resume and Cover Letter Screening

Video Interview Assessments

Skill Assessments

Predicting Candidates' Success

Conclusion

Our Working Process

References

- $(1) \ \ \textbf{https://www.techtarget.com/searchenterpriseai/definition/AI-Artificial-Intelligence?Offer=abt_pubpro_AI-Insider}$
- (2)
- (3)