Resume Building For Data Scientists

Plan of Attack

- Strategy
- Building a Resume
- Section wise discussion
- General points
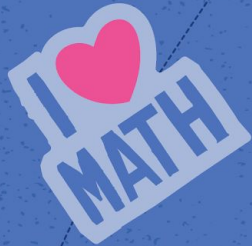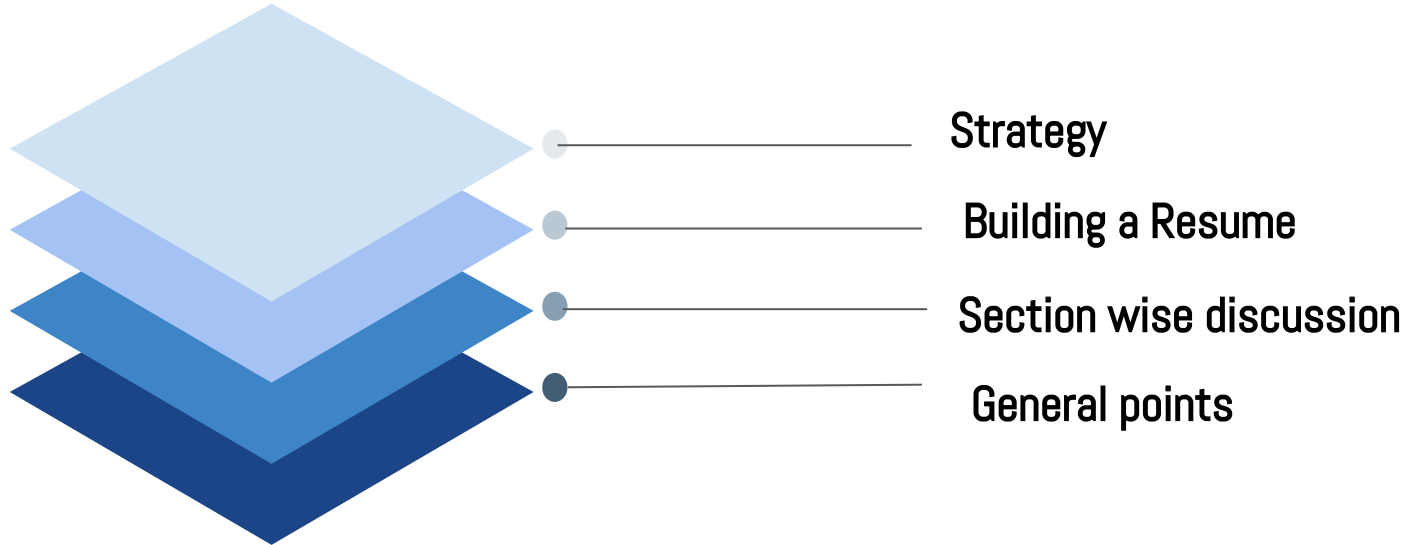
Strategy

1 page resume

Design of the resume

Tell a story

Customize

Get 1 point to click

Also talk about transferable skills

Types of Resume

Basic

Functional

Infographic

PAULA WILSON
JUNIOR DATA ANALYST

PROFILE SUMMARY

PROFESSIONAL SKILL   TECHNICAL SKILL

EDUCATION

PROJECTS

PAULA WILSON
JUNIOR DATA ANALYST

PROFILE SUMMARY

PROFESSIONAL SKILL   TECHNICAL SKILL

EDUCATION

WORK EXPERIENCE

HOWARD ONG
DATA SCIENCE

EDUCATIONS

AWARDS

CONTACT INFO

MY PROFILE

WORK EXPERIENCE

MY SKILLS

Where can I build my resume?

Google Docs

Canva

Other Websites like zety

Resume Formatting

1. Use an elegant text font
   a. Good examples: Calibri, Times New Roman, Arial, Verdana, Cambria, Tahoma, Georgia
   b. Bad examples: Comic Sans MS, MS Gothic, Ink Free, Agency FB, OCR A Extended
2. Use font size: 11-12pt for the text, 14-16pt for headings
3. Make section headings and the header bold
4. Avoid using too many text styles such as bold, italic, bold-italic and underlined
5. Use 1-1.15 line spacing
6. Avoid visual effects, decorations, or unnecessary icons
7. Use bullet points to make your resume look clean, well-organized, and easy to follow
8. Don't use redundant headings
   a. Relevant Work Experience - Just write Experience
   b. Skills and Tools - just write Skills
   c. Additional Information - write Extras

(Contact Information)
First Name Last Name
Job Title

Phone | Email | City, State | Social Media (LinkedIn, etc.)
(Resume Summary or Objective – no more than 2-3 lines)

WORK EXPERIENCE
Current/Most recent Job Title
Company Name
Start & End Dates of Employment in MM/YYYY format
Key Achievements/Responsibilities
- Key Achievements/Responsibilities 1.
- Key Achievements/Responsibilities 2.
- Key Achievements/Responsibilities 3.
- Key Achievements/Responsibilities 4.

Previous Job Title
Company Name
Start & End Dates of Employment in MM/YYYY format
Key Achievements/Responsibilities
- Key Achievements/Responsibilities 1.
- Key Achievements/Responsibilities 2.
- Key Achievements/Responsibilities 3.

EDUCATION
Degree Name & Major Subject
University Name
Start & End Dates of Study in MM/YYYY format

SKILLS & CERTIFICATIONS
(Job-specific & Technical, Computer, or Soft Skills)
- Skill 1
- Skill 2
- Skill 3
- Skill 4

ADDITIONAL RESUME SECTION
(Optional Sections for e.g. Volunteering, Awards, Publications, Hobbies, etc.)

Resume Structuring

Freshers

Header

Resume Summary

Education

Skills

Experience if you have any

Extra

Experienced

Header

Resume Summary

Experience

Skills

Education

Extra

1. Header

LATISHA HAMILTON
Senior Data Scientist | CAP | DASCA
+1-555-0100   @ latishaham@hey.com   www.linkedin.com/in/~lhamilton~
Phoenix, AZ

Name -> Subheading -> Phone -> Professional email -> linkedin -> other

No need for address

Add Linkedin if it offers something

Optional Photo

2. Summary

Diana Dawa
Data Scientist

Data Scientist with 4+ years of broad-based experience in building data-intensive applications, overcoming complex architectural, and scalability issues in diverse industries. Proficient in predictive modeling, data processing, and data mining algorithms, as well as scripting languages, including Python and Java. Capable of creating, developing, testing, and deploying highly adaptive diverse services to translate business and functional qualifications into substantial deliverables.

Should not be a copy paste

Personalize

Example on next slide

Example(Experienced)

Data scientist with 9 years experience seeks new position. Skilled in statistics, machine learning, critical thinking, and data visualization.

Microsoft and Google certified data scientist with 9 years of experience. Seeking to increase data efficiency for Contranix Capital Inc. Achievements include creating data regression models to predict company stock prices with 25% more accuracy than historical average. Achieved 20% improvement in investment returns across all clients. Highly skilled in machine learning, data visualization, and creative thinking.

Example(Fresher)

Entry-level data scientist, seeking a machine learning or data engineering job. No real-world experience yet but I'm eager to get into the Big Data field.

Junior data scientist with 3+ years of experience in project work and freelance jobs. Beat 200+ statistics professors and big data professionals in an NCAA pool, by building models that fit the problem best. Skilled in machine learning, statistics, problem solving, and programming.

3. Experience

Explain responsibility and impact

Reverse Chronological order

Freshers -> shadow experience

WORK EXPERIENCE

Data Scientist
Future Energy Ltd.

06/2018 - Present   *Palo Alto, CA*

- Develop action plans to mitigate risks in decision making while increasing profitability by leveraging data science.

- Drive the interaction and partnership between the managers to ensure active cooperation in identifying as well as defining analytical needs, and generating the pull-through of insights with the business.

- Build predictive models using various machine learning tools to predict the possibility of equipment failure.

- Develop algorithms using Natural Language Processing and Deep Learning models for predictive maintenance.

- Design algorithms to track and detect anomalies in multiple sensors data for the Energy Industry.

- Demonstrate knowledge and execution of application programming interface development and test automation.

Example(Experienced)

Exend Capital

Data Scientist

2013 - 2017

- Worked as a data scientist for a capital management firm.
- Created and presented models for potential holdings.
- Created machine learning tools to compute adjusted PE values.

Exend Capital

Data Scientist

2013-2017

- Fulfilled all data science duties for a high-end capital management firm.
- Created and presented models for potential holdings to fund managers. Achieved 20% better returns vs historical performance.
- Created machine learning tools that computed adjusted P/E values.
- Predicted stock price 25% better than traditional figures.

Example (Freshers)

Kaggle Competition

Freelance Work

Open Source Contribution

Freelance Data Scientist

2016-2017

NCAAMaster: Beat 200+ statistics professors, students, and professionals in an NCAA pool by finding the right data models for the job.

FootForest: Used random forest regressor to predict fantasy football scores.

Pylearn 2: Regular contributor to Machine Learning project on GitHub.

Skills

Categorize

Don't self rate

Use skills in explaining projects/experience

Operating System:
Windows, MacOS, Linux

Database/Server:
My SQL, Postgres, SQL Server

Programming Language:
Python, scikit-learn, Python, OpenCV, D3.js, H2O.ai, Spark, Hadoop, R Programming, Django, Angular.js, HTML, SQL, JavaScript, PHP

Other Software/Tools:
Tableau, Deep Learning, Machine Learning, IP Cameras, AWS Services, Microsoft Azure

Data Mining

Python

R

Java

Data Science Skills: Collaboration, CRM, Database Management, Data Visualization.

So, add them to your resume. But don't stop there.

Prove them in your bullet points like in this data scientist resume skills example:

- *Collaborated with team members to optimize CRM database for a high-volume real estate firm.*

- *Decreased wasted phone and email time by 57%.*

- *Used matplotlib to create real-time ROI graphs that helped the teams focus on high-profit business. This led to a 20% increase in annual profit.*

Education

Reverse Chronological

Explain what you learnt

Add relevant coursework/ certifications

BS in Statistics, Syracuse University

2008 - 2012

- *GPA 3.2*
- *Completed all core coursework.*

BS in Statistics, Syracuse University

2008-2012

- Excelled in ==machine learning== and data science coursework.
- Completed a senior project to predict waitress tips in a busy Boston restaurant. Used decision trees, ==regression== models, and SVM.
- President, ==AI== club.

Microsoft Professional Program for Data Science

- Completed all 10 required courses in Data Science (120 hours).
- Mastered 10 crucial data science skills.

Projects

Explain Projects with metrics

Write relevant project first

Recruiters love words like Unstructured data, problem solving, team work

PROJECTS

Fantasy Football Models

- Aggregated and prepped 3 years of fantasy football projection data from 3 independent sources into a MySQL database.
- Created a random forest model in SAS, combining disparate sources into one projection that outperformed the mean absolute error of the next best projection by 15%.

Entertainment Engine

- Aggregated data from IMDB and Rotten Tomatoes, and used k-nearest-neighbors in SAS, constructing an enhanced entertainment selection targeted to reach 15- to 25-year-olds.
- Improved methodologies to save an average of 12 minutes per movie selection and 3 minutes per song selection.

Extras

Achievements

Publications

Extra-curriculars

About Yourself

Conferences

- AAAI Conference on Artificial Intelligence (2016)

- The Machine Learning Conference—Spoke on a Panel About AI (2014)

Awards

On team that won the Kaggle "Titanic: Machine Learning" challenge

Additional Activities

- Article "Machine Learning in the Next 10 Years" cited in Forbes

- Leader of bi-monthly hiking club

- Volunteer monthly at the Boylston St. Soup Kitchen

Cover Letter

Never miss this

Personalize

Use your own words

Again be to the point and Use metrics

Dear Trent,

I've wanted to work for Valens Securities for several years. Your take on the limitations of GAAP fits perfectly with my skill set. I believe my work with data-regression models for company P/Es would be extremely valuable in your quest to adjust for accounting anomalies. My achievements include...

General Points

Study a lot of relevant examples

Get multiple feedback -> Resume worded

Iterate

No Typos

Hide things that you are not confident of

Save and share in pdf