

Arshi Rastogi

Data Scientist | Writer | Researcher

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I am a data scientist and a post graduate researcher in radio astronomy. I have a keen interest in finding insights from variable data and possess a knack for writing. I am looking for opportunities in analytics field as a career switch in this field.

Work Experience

AI maths trainer

Outlier AI-India

Freelance

October 2024 to Present

Train LLMs on mathematical sciences.

Data Science Coding Competition

Coursera-Lucknow, Uttar Pradesh

Freelance

August 2024 to September 2024

- In this coding challenge, I compete with other learners to achieve the highest prediction accuracy on Customer Churning, a machine learning problem.
- Used Python and a Jupyter Notebook to work with a real-world dataset and build a prediction model using Logistic Regression algorithm.

Data Scientist Intern

Unified Mentor Pvt. Ltd.-India

Internship

June 2024 to July 2024

- Worked on two end to end practical projects remotely.
- Crop production in India and Atliq hospitality analysis are the two projects.
- Performed data cleaning, EDA, data preprocessing, feature engineering and applied ML algorithms such as random forest, linear regression, Arima and Sarima and analysed the results with useful visualisations portrayed in Power BI dashboards.

Outreach Representative

Jodrell bank center for astrophysics at university of manchester-Manchester

Full-time

October 2022 to September 2023

I will be presenting the JBCA stand at the blue dot music festival in June 2023.

I help promote and publicize astronomy with events to help people learn about astronomy.

Graduate Teaching Assistant

University of Manchester-Manchester

Full-time

September 2022 to August 2023

I am a graduate teaching assistant, teaching/ helping 2nd year undergraduate students in python programming, working for only 6 hours a week every Tuesday.

Helping them solve their slightest of queries without hesitation.

Content Writer

Affnosys India-Bengaluru, Karnataka

Contractual

June 2022 to August 2023

I work from home as a content writer at Affnosys.

I wrote technical articles as well as blog posts keeping it SEO friendly.

Summer Research Fellow

Indian Academy of Sciences (INSA-NASI-IAS)-Bengaluru, Karnataka

Internship

June 2021 to September 2022

I worked on a project titled- ' Identification of Galaxy Merger in a Large Data Set and its Analysis', where the main aim of the project was to identify merging galaxies (DAGN) from a large dataset using Sloan Digital Sky Survey (SDSS) since, the galaxy pairs are either too small or the galaxy separations are too large to include merger remnants. The analysis included graphical statistics like Colour-Magnitude Diagram for galaxies, histograms of distance distribution and type of galaxies and Redshift (z) distribution of the galaxies.

Summer Student

Indian Institute of Astrophysics-Bengaluru, Karnataka

Internship

June 2022 to August 2022

- I attended a week long summer school on astronomy at IIA, Bangalore.
- I also learned through a lot from the hands on session on astrophysical problems.

Education

Postgraduate Degree in MRes Astronomy and Astrophysics

University of Manchester - Manchester

July 2022 to November 2024

Bachelor's in Physics honours

Chandigarh University - Chandigarh, Chandigarh

June 2019 to July 2022

Skills / IT Skills

- Data visualisation (3 years)
- Microsoft Powerpoint (3 years)
- LaTeX (2 years)
- Python (3 years)
- Writing Skills (2 years)

- Machine learning (2 years)
- Power BI (1 year)
- MS Excel (1 year)
- Academic writing (1 year)
- Natural language processing (Less than 1 year)
- Scikit learn (2 years)
- RAG (Langchain) (Less than 1 year)
- Statistics (2 years)

Languages

- English - Fluent
- Hindi - Expert

Online Profile

<https://drive.google.com/drive/folders/1Va8B1JnJH-DB9k9VyXsuGX42yZjz7qOL?usp=sharing>

<https://drive.google.com/drive/folders/1Va8B1JnJH-DB9k9VyXsuGX42yZjz7qOL?usp=sharing>

<https://drive.google.com/file/d/16iMHhyvnMe6rGT-J2Oz9z2dGf1gTPCzU/view?usp=drivesdk>

[https://www.linkedin.com/in/arshi-rastogi-a302aa1a2?](https://www.linkedin.com/in/arshi-rastogi-a302aa1a2?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app)

[utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app](https://www.linkedin.com/in/arshi-rastogi-a302aa1a2?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app)

Certifications and Licenses

Data science internship

July 2024 to Present

- Completed data science internship at unified mentor.
- Developed two end to end projects including ML algorithms.
- Project 1 was about the crop production in India and I used polynomial regression algorithm.
- Project 2 was about Atliq hospitality analysis where I used Sarima model for predictive analytics.

Accenture data analyst internship Forage

August 2024 to Present

- I performed basic analysis using Excel (including cleaning and preprocessing) and then visualised the data using Power BI and presented it in reports to my manager.

PWC Busines Analyst internship

August 2024 to Present

- Performed data exploration and cleaning steps then used Power BI to make enaging reports for better visualisation of insights gathered from data

Introduction to Statistics by Stanford University

August 2024 to Present

- Learned statistical concepts that are essential for learning from data and communicating insights.
- Performed exploratory data analysis, understood key principles of sampling, and selection of appropriate tests of significance for multiple contexts.
- Gained the foundational skills that prepared me to pursue more advanced topics in statistical thinking and machine learning..
- Topics include Descriptive Statistics, Sampling and Randomized Controlled Experiments, Probability, Sampling Distributions and the Central Limit Theorem, Regression, Common Tests of Significance, Resampling, Multiple Comparisons.

Build a Data Science Web App with Streamlit and Python

May 2022 to Present

- Build interactive web applications with Streamlit and Python
- Use Pandas for data manipulation in data science workflows

Odinschool data science Bootcamp

May 2024 to Present

Completed end to end data science bootcamp at odinschool