ASJIhina Mahajan · iasshinamahajan17@gmail.com | +91-725445519

Summary:
A recent postgraduate with a degree in physics. Strong understanding of statistical analysis, data visualization, and machine learning techniques. Proficient in programming languages such as Python and SQL. Experience with data cleaning and preprocessing. Strong analytical and problem-solving skills. Able to work independently and in a team environment. Strong verbal and written communication skills. Proven ability to turn data into actionable insights.

Technical Skills:
- Programming languages: Python, SQL
- Data analysis tools: Pandas, Numpy, Scikit-learn, Statistical analysis
- Machine learning frameworks: Pnadas, Numpy, TensorFlow, Keras, Deep learning, Deep Neural Networks
- Visualization tools: Matplotlib, Seaborn

Professional Experience:

Junior Research Fellow | Indian Institute of Technology, Ropar *(Oct'22-Present)*
- Developed a model to design a functionally graded material with varying modulus of elasticity having minimum deformation under maximum applied force, resulting in improved material performance.
- Used deep learning techniques and improved the accuracy of the model by 15% through scikit-learn, tensor flow, pandas, and numpy.
- Improved model performance with Keras tuner and identified patterns and trends with autoencoders.

Data Analyst | I Dream Career *(June 2022- Oct 2022)*
- Conducted Secondary Research and analyzed data from over 200 sources, providing insights into trends and patterns in the data.
- Cleaned and collated both qualitative & quantitative data of entrance exams and scholarships from the existing directories, resulting in a more organized and accurate data set.
- Structured both textual and numeric data focused on a schema-based framework that goes into the product architecture, resulting in a more user-friendly product.
- Collaborated with cross-functional teams to identify business opportunities and provide insights to improve performance, resulting in a 15% increase in revenue for the company.

Subject Matter Expert | Evelyn Learning Systems *(Feb 2020- Nov 2020)*
- Created and reviewed content for IIT JEE Physics for a mobile based application, resulting in improved user engagement and satisfaction.
- Created and solved many question papers for physics with 95% accuracy for the application, resulting in improved user performance and learning outcomes.
- Received the Aryabhatta award among the team of 50 members for outstanding performance in the first quarter in 2020-2021, recognition of the candidate's contributions to the company.

Education:
- Bachelor of Science in Physics, University of Delhi, 2019
- Master of Science in in Physics, University of Delhi, 2022

Achievements:
- Secured All India Rank 709 in IIT JAM Physics (Joint Admission Test for Masters Entrance) among nearly 1 lakh students.
- Secured All India Rank 19 in DUET 2021 (Delhi University Postgraduate Entrance Exan for M.Sc. Physics).
- Secured 3rd position in Oral Presentation in Tech-Fest in Maitreyi College (2019).
- Secured 3rd Position in Oral Paper Presentation in the National Conference "Interdisciplinary: Prospects & Challenges" (2016)

Certifications:
- Supervised Machine Learning: Regression and Classification
- Data Analytics program: Skillovilla (Nov 2021-May 20202)
- Data analyst virtual internship program, Stige (Aug 2021-Oct 2021)
- Introduction to python, Coding Ninjas (April 2021-June 2021)