AMANDEEP SINGH

Data Analytics | Business Intelligence | Machine Learning | Astrophysics | Cosmology

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SUMMARY

- Enthusiastically pursuing my second Masters, MSc in Data Analytics (Jan 2020-Jan 2021), from the prestigious National College of Ireland (First Sem Result: 1:1, 81.7%, Class Topper; Second Sem Result: 1:1, 78.17%, 3rd in Class)
- Fluent in numerical analysis and programming in Python, C++ & R.
- Effectively work in IBM SPSS, SQL, Tableau, PowerBI, Git, Microsoft Dynamics 365, Jupyter Lab/Notebooks, Google Colab, LaTeX.
- Trying to improve HTML/CSS skills by designing webpages – designed own CV webpage and Blog.
- Successfully completed Masters in Physics (Astrophysics & Cosmology) with 4.5/6 grade from University of Zurich (2019).
- Successfully completed Bachelors (Honours) in Physics with 77.64% from University of Delhi (2017).
- VISA: Currently possess STAMP-2 Study Visa - eligible to work for 20 hours/week; will get STAMP-1G Work Permit in March/April 2021, allowing to work 40 hours/week.

EDUCATION

🎓 MSc in Data Analytics

National College of Ireland
1st Semester (Jan'20 - Apr'20): Percentage: 81.7% (Class Topper)
2nd Semester (May'20 - Aug'20): Percentage: 78.17% (3rd in Class)

📅 2020-2021 　　　　　　　　　⚲ Dublin

🎓 MSc in Physics - Astrophysics & Cosmology

University of Zurich
Grade: 4.5/6

📅 2017-19 　　　　　　　　　⚲ Zurich

🎓 BSc (Honours) in Physics

University of Delhi
Score: 2795/3600 – Percentage: 77.64%

📅 2014-17 　　　　　　　　　⚲ New Delhi

🎓 Grade 12 ('A' Level)

Kendriya Vidyalaya, Tagore Garden
CBSE Board – Marks: 463/500 – Percentage: 92.6%

📅 2014 　　　　　　　　　⚲ New Delhi

🎓 Grade 10 ('O' Level)

Kendriya Vidyalaya, Embassy of India, Kathmandu, Nepal
CBSE Board – CGPA: 9.8/10 – Percentage: 93.1%

📅 2012 　　　　　　　　　⚲ Kathmandu

OBJECTIVE

"Ambitiously looking for institutions/organisations that could help me widen my horizons by gaining real-world experience and further aid me in converting my research into a PhD in Data Science and/or Astrophysics."

TECHNICAL SKILLS

Fluently program and carry out numerical analysis in:

Python　C++　R　SQL

Comfortably perform business/statistical analysis and create dashboards in:

IBM SPSS　Microsoft Dynamics 365　Tableau　PowerBI　Microsoft Excel

Efficiently work in:

Jupyter Lab　Google Colab　RStudio　Git　LaTeX

Steadfastly learning to code in:

HTML5　CSS

Confidently operate and manage tools in:

MS Office　PHD2　Nebulosity　ABINIT　QUCS　GNU Plotter　Adobe Lightroom

PROJECTS

📄 **Visualising the COVID-19 Pandemic using Reddit posts, Twitter Hashtags and Stock Market fluctuations**
Database & Analytics Programming, M.Sc. in Data Analytics

📄 **Comparing Transfer Learning Techniques for Detection of Traffic Signs using Image Recognition**
Data Mining & Machine Learning, M.Sc. in Data Analytics

📄 **Life Expectancy Prediction using Multiple Linear Regression and Consumer Price Index Forecasting Model**
Statistics, M.Sc. in Data Analytics

📄 **Rainfall Prediction in Australia, Exoplanet Classification, & Indian Air Quality Index Prediction using Data Mining & Machine Learning Models**
Data Mining & Machine Learning, M.Sc. in Data Analytics

📄 **Managing and Visualising the Workings of an Organisation using Microsoft Dynamics 365 and Power BI Dashboards**
Business Intelligence & Business Analytics, M.Sc. in Data Analytics

📄 **Statistical Analysis using Binary-Logistic Regression, one-way ANOVA, t-Test and chi-Square Test**
Statistics, M.Sc. in Data Analytics

📄 **Predicting Customer Review Scores using Ancillary Metadata from Customer & Transaction Details**
Domain Applications & Predictive Analytics, M.Sc. in Data Analytics

📄 **Simulating and Optimising the HS2 Train Line from London Old Oak Commons to Birmingham Interchange**
Modelling, Simulation & Optimisation, M.Sc. in Data Analytics

📄 **A sub-grid model for molecular gas in a cosmological galaxy formation simulation - THESIS**
Astrophysics & Cosmology, M.Sc. in Physics

AWARDS/ACHIEVEMENTS

🏆 Diploma Examination in Harmonium (Vocal)
Prayag Sangeet Samiti, Allahabad
📅 2014-2016   📍 Uttar Pradesh, India

🏆 Grade 12 ('A'-Level) – School Topper
Kendriya Vidyalaya, Tagore Garden
📅 2014   📍 New Delhi, India

Computer Science (98/100), English (95/100): *School Rank-1*
Chemistry (95/100): *School Rank-2*

🏆 KVS National Level INSPIRE Award Examination
Department of Science & Technology, GOI and KVS
📅 2011-2012

Participated (2011-12) in KVS National Level INSPIRE Award Examination organised by Department of Science & Technology, GOI and KVS.

WORK EXPERIENCE

💼 Lab Assistant (Part-time)
National College of Ireland
Part-time role (Ongoing)
📅 2020   📍 Dublin

CERTIFICATIONS

✳ **KPMG - Data Analytics Consulting Virtual Internship**
Enrolment Verification Code: rtGeNacgiBtvP7cSB | User Verification Code: 53dB6ug2NW6Cyser4

✳ **UDEMY - The Data Science Course 2020: Complete Data Science Bootcamp**
udemy.com/certificate/UC-4GQYB8YV/

✳ **Python: Kaggle Certification**
Kaggle.com

✳ **Intro to SQL: Kaggle Certification**
Kaggle.com

✳ **Advanced SQL: Kaggle Certification**
Kaggle.com

✳ **Pandas: Kaggle Certification**
Kaggle.com

✳ **GRE Physics Test, ETS Zurich**
Scored 830 in the *GRE Physics* conducted by ETS in Zurich, Switzerland on April 14, 2018.

✳ **IELTS - British Council, Switzerland**
Given on: 29.06.2019 – Overall Band: 7.5 (Reading: 7.5; Listening: 9.0; Writing: 6.0; Speaking: 8.0)

EXTRA CURRICULAR

Regularly render *voluntary* community service at the local Gurudwara (Sikh Temple) in Dublin

Passionately listen & sing devotional Bhajans/Kirtan

Self-learning Spanish

Organising private Physics & Mathematics classes in social circle

LANGUAGES

English   ⬤⬤⬤⬤⬤
Hindi   ⬤⬤⬤⬤⬤
Punjabi   ⬤⬤⬤⬤⬤
German   ⬤⬤⬤◯◯
Spanish   ⬤◯◯◯◯