

Manan Raina Kumar

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Education

Shiv Nadar University, Delhi-NCR, B. Tech in Computer Science and Engineering Aug 2024 – Present
8.51 CGPA

- **Coursework:** Computer Programming, Data Structures & Algorithms, Vector Calculus, Linear Algebra
- Deputy lead of Google Developers Students Club, Member of The Aerospace and Aeronautics Club

University of Waterloo, CA, Quantum Computing Course June 2022

- **Coursework:** Quantum Computing
- Program offered by the Institute of Quantum Computing, UWaterloo offered a blend of expert lectures, small group discussions, and problem-solving offered to selected students. Stood apart by completing all assignments on time.

Delhi Public School, Dwarka, 12th Grade May 2021 – Mar 2023

- **Coursework:** Math, Physics, Chemistry, English, Computer Science
- **President of CORE (tech club) and Ingenious (Innovation Club)**, Epsilon Head at Flux (Physics Club).

Experience

Data Reductionist, The SALVATION Project Aug 2023 - Sept 2024

- Reduced data received from the 3m shane telescope and worked on classifying stars
- Supported by University of California, Santa Cruz.

Research Intern, University Of California, Santa Cruz Jun 2022 - Aug 2022

- Analyzed spectral features of different stars and made a model to classify stars

Web Developer, The Memoir Archive Nov 2021 - Aug 2022

- Created the website for The Memoir Archive using ReactJS

Research

Spectroscopic Classification of transients Nov 2023

Manan R. Kumar, Stephan Kimura, Rafael Nunez, Richard Smith, Monika Soraisam, Kevin McKinnon, Puragra Guhathakurta

Astronomer's Telescope: 16335 16333

Projects

PageIt: Offline Encyclopedia github.com/virajapalleti/PageIt

- Built a native android app integrated with fine-tuned Gemma-2B that works offline on user's phone and doubles as a server to serve articles to other people in low-income countries via SMS.
- Tools Used: Kotlin, Python, HuggingFace

Offline Contest Management System (CMS) github.com/manan025/cp-platform

- Contest Management System that works without internet. It was used in CORE15 to organize the programming contest. It keeps the test data secure and logs all user activities.
- Tools Used: Python, ReactJS, NodeJS, Docker

Alert Sphere alertsphere.mrkr.me

- Alertsphere is a Real-Time Disaster Information Aggregation Software that sources data from trusted news sources and alerts civilians in real-time. Alongside this, AlertSphere also uses Machine Learning models to predict future disasters.
- Tools Used: Microsoft Azure, ReactJS, NodeJS, Python, fastAPI

Technologies

Languages: C, C++, Javascript, SQL, Kotlin, Python

Technologies: Docker, Digital Ocean, Google Colab, Google Cloud Platform, Microsoft Azure, Microsoft SQL Server, Paperspace, XCode, JetBrains IDEs