Ansh Poonia

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EDUCATION

- **BML Munjal University** — Gurugram, Haryana
  Bachelor of Technology; GPA: 9.35 — *Aug 2020 - May 2024*
  Coursework: Operating System, Web Programming, Python Programming, Artificial Intelligence, Fundamentals of Machine Learning, Design and Analysis of Algorithms.

- **Model School Rohtak** — Rohtak, Haryana
  Graduated with high honors; Physics: 99/100 — *April 2016 - May 2020*

SKILLS SUMMARY

- **Languages:** JavaScript, Python, Java, SQL, Octave, React Native, NodeJS, ReactJS, CSS, SASS
- **Tools:** GIT, Heroku, Postgres, MongoDB, MySQL

EXPERIENCE

- **Kantar** — Gurugram, Haryana
  Data Science Intern — *June 2022 - Aug 2022*
  - Devised new methods to extract tabular data from .pdf file using regex, and pattern recognition.
  - Assisted MindWork's team in developing statistical models to assess user base of clients.
  - Optimised and redesigned existing source code files and documentation.

RESEARCH WORK

- **Green Index**
  BML Munjal University — *August 2022 - Ongoing*
  - Developed program to find overlapping pixels between two images.
  - Formulated a method to compute amount of greenery present in an image.

- **Video to Panorama**
  BML Munjal University — *June 2022 - Ongoing*
  - Designed an algorithm to convert to make a panorama out of a scenery in a video.
  - Working on an alternative to PSNR and SSIM for finding similarity between images using convolution features in CNN.

- **Blood Flow test for Leukemia**
  BML Munjal University — *Oct 2022 - Ongoing*
  - Identified new test for Leukemia using blood flow metrics.

PROJECTS

- **Image Style** Python, Tensorflow, OpenCV — GitHub
  - Implemented the algorithm of research paper: A Neural Algorithm for Artistic Style.
  - Enables us to create an image with the style of a painting and content of selected picture.
  - Computational time decreased by using MobileNetV2.

- **The Journal** React Native, Firebase — GitHub
  - Journal-ling mobile application made using React Native for both iOS and AndroidOS.
  - Authentication supported by Firebase Auth.
  - Journal entries are stored remotely in FireStore.
  - Remembers the location of where the entry was made and shows them on map.

- **Tic-Tac-Toe Chat** JavaScript, Node.js, HTML, CSS, Three.js, WebRTC — GitHub
  - Online multiplayer web application for playing Tic-Tac-Toe.
  - Concept of 'pending HTTP Post request' used to implement message transfer between two players.
  - Peer to Peer video calling feature enabled by WebRTC.
  - Simple and beautiful animations using Three.js