Taresh Batra

Final Year Student @ BITS Pilani

🏠 Home   GitHub   in LinkedIn   ✉ E-Mail   📞 Phone

EXPERIENCE

AMERICAN EXPRESS, AI LABS | AI Analyst-Intern
July 2022 – Present | Gurugram, India

➔ Working towards refining Amex's ML Ops to make its internal AI deployment platforms more accessible and efficient. Specifically towards creating configurable data engineering solutions to allow more flexibility to its users.

COULOMB AI | Data Science Intern
November 2021 – January 2022 | Bangalore, India

➔ Coulomb AI is a Y-Combinator-backed start-up working towards accelerating automotive electrification by making the EV business profitable faster.

➔ Created several deep learning models to predict the SOH (State Of Health) and the RUL (Remaining Useful Life) values for industry-grade electrical batteries to improve their then prediction capacity.

UST GLOBAL | Machine Learning Intern
May 2021 – July 2021 | Trivandrum, India

➔ Built a meeting summarizer tool using a transformer-based model. This task fell under the domain of abstractive text summarization (paraphrasing the main contents of the given text, using a vocabulary different from the original document).

PROJECTS

FLIBGIB | App Development and Entrepreneurship
July 2021 - Present

➔ Flibgib is a self-initiated project. I started this project with a friend, building on our idea to make online dating a more wholesome experience for everybody while respecting the sensitivity associated with this intimate matter.

➔ The app is available on Google Play store. To know more about this project, please visit the Website.

CUFFLESS BP PREDICTION | Time-Series Forecasting
January 2022 - June 2022

➔ Worked on an investigative study in collaboration with researchers at HKUST Hong Kong under the guidance of Professor Tirtharaj Dash (Postdoc, UC-San Diego) to improve the precision of non-invasive blood pressure monitoring methods (PPG and ECG) to resemble the gold standard of invasive procedures like ABP. Improving on this process will yield easy access to accurate cardiac vitals for quick medical diagnosis.

SAR-OPTICAL IMAGE TRANSLATION | Computer Vision (CV)
August 2021 - December 2021

➔ I worked under Dr Nitin Sharma (Assoc Prof, BITS Pilani) to improve the state-of-the-art model for SAR-Optical Image Translation. His research on this topic is funded by the Indian Space Research Organisation (ISRO).

➔ We built a Supervised CycleGAN with a U-Net architecture and used techniques like equalized learning rate and layer normalization introduced in the ProGAN paper to smoothen the training process in an attempt to build on the state-of-the-art.

SKILLS

TECHNOLOGIES
- ML/ ML Ops • BI
- Data Mining • NLP • CV
- Data Science • UI/UX Design
- Full-Stack App Development

PROGRAMMING
- Python • Dart • MATLAB
- SAS• JS • Java • SQL • C++

LIBRARIES/FRAMEWORKS
- PyTorch • Tensorflow • Keras
- Pandas • Numpy • RL-Glue

SOFTWARES/TOOLS
- Git • Firebase • Tableau
- Flutter• Spark • Hive

EDUCATION

BITS PILANI
B.E. Electrical and Electronics Engineering (EEE) (Major) Data Science (Minor)
Aug 2019 - Present | Goa, India
CGPA: 8.91 / 10.00

PACE JUNIOR SCIENCE COLLEGE
High School Diploma
May 2017 - May 2019 | Mumbai, India
ICSE Exam Score: 85.38/100.00

PAWAR PUBLIC SCHOOL, CHANDIVALI
Middle School
Aug 2013 - Mar 2017 | Mumbai, India
HSC Exam Score: 96.33/100.00

COURSEWORK

- Foundations of Data Science
- Deep Learning (also served as a Teaching Asst.)
- Applied Statistical Methods
- Reinforcement Learning
- Machine Learning
- Optimization
- Communication Systems
- Mobile Telecom Networks