Ronit Kumar, B.Sc.

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Education

2020 – Present	**B.Sc. Computer Science, Habib University** CGPA: *3.58/4.00* Thesis Title: *LipSync Voice for Aphonia Patients*
2018-2020	**Cambridge General Certificate of Education Advanced level (AL), Cedar College Karachi** in Computer Science Grade: *A*,
2015 – 2018	**Cambridge General Certificate of Education Ordinary Level (OL) , Sargodhian Spirit Public School Rashidabad** in Computer Science Grade: *A*, awarded with best student overall

Work Experience

Aug 2023 – Present	**Teaching Assistant for Data Science Course** at Habib University　**Karachi, PK** Provided support to the instructor by conducting weekly hours, tutoring sessions and designing and grading reading assignments.
June 2023 – September 2023	**Data Science Intern** at AIFACTOR.CA　　　　　　　　　**Karachi, PK** Integrated OPC DA server to improve data connectivity, developed a telegraf plugin for efficient data creation and automation, built machine learning models for CO_2 emissions prediction, and performed data analysis and cleansing for exploratory data analysis (EDA).
Jan 2023 – May 2023	**Teaching Assistant for Software Engineering Course** at Habib University **Karachi, PK** Provided support to the instructor by conducting weekly recitations and tutoring students in office hours on Scrum and Agile practices
Aug 2021 – December 2021	**Teaching Assistant for Programming Fundamental Course** at Habib University　　　　　　　　　　　　　　　　　　　　　**Karachi, PK** Provided support to the instructor by conducting weekly hours, tutoring sessions and assisted students during their Lab-timings

Awards and Achievements

2023	**Winner of Best Summer Project Award by Carrer Curation Program**, at Habib University
	Secured Third Position in ACM Data Science Competition, at Fast University
	Secured Third Position in ICPC Global Programming Contest Qualifying Round 2022, 13th all over Pakistan
	Secured 2nd Runner's up in Hackathon, organized by SastaTickets.pk
2022	**Runner-up in Speed Debugging Competition by Brain.hack()**, at Habib University
	Runner-up in Speed Programming Competition by IEEE 2022 at NED University

Research

- **Poet Attribution of Urdu Ghazals using Deep Learning**
- **Survey on Autism prediction and diagnosis using Hidden Markov Models**
- **Survey on Haptic Feedback in Tele-Operated Surgical Robots**

Projects

- **LipSync Voice for Aphonia Patients in Urdu**
- **Human vs AI ludo using Temporal Difference and Reinforcement Learning**
- **JetLagEase: YOLO-based AI for personalized fatigue assessment and travel advice**
- **Movie Recommedation system using Cartesian Trees**
- **Forced Conversion in Sindh sentiment analysis using NLP**
- **Real-time Motion-Contol-Ping-Pong-Game-on-FPGA-Verilog**
- **Carpool Application using Flutter**

Skills

Languages	Strong reading, writing and speaking competencies for English, Urdu and Sindhi.
Coding	Python, C, C++, JavaScript C♯, Dart SQL, LaTeX, …
Databases	MySQL, PostgreSQL, SQLite, MongoDB, Neo4j
Data Science	Numpy, Pandas, Sklearn, Pytorch, Tensorflow, Keras, NLP, Open CV, Matplotlib, Tableau, Power BI
Project Management	Agile, Scrum, EPIC, Kanban, Jira, Trello
Technical Skills	GitHub, Academic research, teaching, public speaking