Rishabh Bassi

Results-driven Machine Learning/Software Engineer with 4 years of industry experience. California, USA
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Education

Texas A&M University **Aug 2022 - May 2024**
Master of Science in Computer Science, Specialization in Machine Learning CGPA 4.0 *College Station, Texas*

Thapar University **Aug 2015 - Jun 2019**
Bachelor of Engineering - Computer Science, Specialization in Machine Learning CGPA 9.62 *Patiala, Punjab*

Experience

LinkedIN **May 2023 – Aug 2023**
Summer Software Intern | ***Automation, ML, Python, System Design, Full-Stack, SQL*** *Mountain View, California*
- Designed and Implemented a Real-Time Automation framework in MYSQL to detect and report data discrepancies in COLOS, improving data integrity and system reliability significantly reducing engineers' effort and time by up to 70%.

Texas A&M University **Aug 2022 – May 2023**
Graduate Research Assistant | ***NLP, MPI, PyTorch, GPU/HPRC, C++*** *College Station,Texas*
- Conducted extensive research on SAR data processing bottlenecks for satellite project, achieving 90% performance increase via optimized code, efficient algorithms, GPU utilization, and parallel computing.

Western Digital **Jul 2019 – Jul 2022**
Senior Engineer | ***Firmware, System Design, C++, Backend Development*** *Bangalore,Karnataka*
- Engineered robust Firmware for XOR Error Handling, enabling the successful launch of high-value products generating USD 1-2B in revenue.
- Orchestrated the remodeling of HW Registers Verification in the FW, eliminating redundancies in Validation cycles.
- Achieved Blue Category High performance by optimizing SSD FW with 25% Write-Read CDM Benchmark improvement.

Six Months and Summer Internship **Jun 2018 - Jun 2019**
- Diagnostic Framework and Performance Profiling and Optimization: Innovated solution for SSD Firmware to enhance framework, enabling identification and resolution of 90% critical issues during Product Development.

Technical Skills

Languages: Python, Java, C, C++, R, Ruby, Rails, MySQL, HTML, CSS, JS, React, NodeJS, REST
Technologies/Skills: BERT, GIT, TensorFlow, GPT3, Django, Jupyter, GitHub, Bootstrap3, Linux, OpenMP, MPI, Eigen, Pytorch, Flask, AWS, ML, Docker, OpenCV, Keras, LLM, Azure, SSMS, Kafka, Espresso, HDFS, GPU, A/B Test, Kubernetes
Relevant Coursework: Algorithms, ML, DS, Natural Language Processing, Software Engineering, Operating Systems, Deep Learning, Data Analytics, Networking, Computer Architecture, Information Retrieval, Cloud/Distributed Systems
Developer Tools: VSCode, GCP, Source Insight, Android Studio, RStuido, PyCharm, RubyMine, Bitbucket, Sequel ACE

Projects

Travelix | *React, Python, AutoRec, ML:* Website **May 2023**
- A cutting-edge personalized travel recommendation system enabling users to receive tailored travel suggestions based on their preferences and travel history, enhancing their overall travel experiences.

TA Management Portal | *Ruby, Rails, FrontEnd:* Website **Aug 2022**
- Created a dynamic website optimizing TA application process, improving efficiency and enabling seamless communication between students and administrators.

Political Propaganda Influence using Twitter Sentiment Analysis | *Python, NLP, ML:* Project Code **Apr 2021**
- Predict celebrities influence leveraging SA on retweets providing valuable insights into social media's impact on public.

Humanoid | *Python, Natural Language Processing, Image Processing, Raspberry Pi:* Project Report **Oct 2018**
- Engineered a TensorFlow-powered Humanoid ChatBot with OCR, personalized AI interactions, and interview preparation assistance, demonstrating advanced conversational system capabilities.

Automatic Text Summarization | *Django, Python, Front End, Javascript NLP:* Project Code **Apr 2018**
- Developed a summarization website, enhancing information consumption efficiency & boosting productivity in research.

Achievements

- Gold Medalist Thapar University - 2018
- Merit Scholarship for Exemplary Academic Performance and National Scholarship Holder Thapar University - 2017-2018
- Work Level Recognition Awarded for Making it Happen and Doing it Together

Research / Leadership / Extracurricular

- Publication on Autonomous Tagging of StackOverflow Questions using Statistical Methods, Link - ICCSIE 2018.
- Publication on Spirochaeta Bacteria Detection Using an Efficient Deep Learning Approach, Link - ICCVBIC 2021.
- Research on Applications of NLP to give human-like understanding to Networks under UIUC Professor Matthew, Fall 2021.
- Managed family business Pushap Industries by directing the manufacturing workforce along with coordinating supply chain.
- Executive Member of Pratigya Society to teach underprivileged children, Toastmasters Club at Western Digital.
- Proactive Engagement in Hackathons and Innovation Bazaar organized at Western Digital, Volunteering in NGOs.