

# RISHABH BASSI

Software Engineer with 3 years of Experience 🌐 Texas, USA - 77801

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## Education

### Texas A&M University

*Master of Science in Computer Science, Specialization in Machine Learning*

**Aug 2022 - Dec 2023**

*College Station, Texas*

### Thapar University

*Bachelor of Engineering - Computer Science, Specialization in Machine Learning CGPA 9.62*

**Aug 2015 - Jun 2019**

*Patiala, Punjab*

## Experience

### Western Digital

**Jul 2019 – Jul 2022**

*Senior Engineer*

*Bangalore, Karnataka*

- Designed Robust Firmware for Error Handling of XOR used in launching products worth USD 1-2B revenue.
- Planned Remodelling of HW Registers Verification in Firmware itself to avoid redundancies in Validation cycles.
- Revised Performance Gaps in Existing SSD FW to meet Blue Category Performance Numbers. Deployed Code with 25% increase in Write-Read CDM Benchmark.

*Six Months Internship*

**Jan 2019 - Jun 2019**

- Diagnostic Framework : Enhanced Capability of Framework by adding new diagnostic Paths for SSD Firmware which helped in debugging 90% of issues in crucial stages of Product Development.

*Summer Internship*

**Jun 2018 - Aug 2018**

- Performance Profiling and Optimization : Developed a Performance Counter Framework to help developer analyze defects in coding schemes, hence optimizing bottleneck in SSD Firmware.

## Technical Skills

**Languages:** Python, Java, C, C++, R

**Web/Database:** HTML, CSS, Javascript, SQL

**Skills/Relevant Coursework:** Algorithms, Machine Learning, Natural Language Processing, Software Engineering, Operating Systems, Deep Learning, Data Analytics, Computer Architecture, Discrete Mathematics

**Developer Tools:** VS Code, Source Insight, Android Studio, RStudio, PyCharm, MSOffice, Bitbucket

**Technologies/Frameworks:** Django, Jupyter, GitHub, Bootstrap3, WordPress

## Projects

**Political Propaganda Influence using Twitter Sentiment Analysis** | *Python, NLP, ML* : [Project Code](#)

**Apr 2021**

- Predict influence of celebrities during elections leveraging sentiment analysis on Retweets of followers.

**Humanoid** | *Python, Natural Language Processing, Image Processing, Raspberry Pi* : [Project Report](#)

**Oct 2018**

- Build a Humanoid to function as a ChatBot deploying TensorFlow; Identify objects using OCR, perform functions such as Personalized AI and help in interview preparation.

**Automatic Text Summarization** | *Django, Python, Front End, Javascript NLP* : [Project Code](#)

**Apr 2018**

- Created website to Utilize Natural Language Processing to summarize webpages or PDF to specified word limit.

**Combo Offers Portal** | *Python, Django, Machine Learning* : [Project Code](#)

**Oct 2017**

- Established Web App Management portal for e-commerce websites to display inventory within specified budget.

## Achievements

🏆 Gold Medalist Thapar University - 2018

🏆 Merit Scholarship for Exemplary Academic Performance Thapar University - 2017-2018

🏆 National Scholarship Holder Senior Secondary - 2015

🏆 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 manufacturing workforce along with coordinating supply chain.
- Executive Member of Pratigya Society to teach underprivileged children, Toastmasters Club at Western Digital.
- Participation in Hackathons and Innovation Bazaar organized at Western Digital, Volunteering in NGOs.