Pavan Chhatpar

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EDUCATION

Northeastern University, Boston, MA — Sep 2018 – Dec 2020
Khoury College of Computer Sciences
Master of Science in Computer Science, **GPA: 4.0/4.0**

University of Mumbai, Mumbai, India — Jul 2014 – May 2018
Vivekanand Education Society's Institute of Technology
Bachelor of Engineering in Computer Engineering, **GPA: 8.99/10.0**

TECHNICAL KNOWLEDGE

Languages: Python, Java, C, C++, Julia, PHP, Node.js, TypeScript, JavaScript, HTML, CSS
ML & Data Pipeline Tools: TensorFlow, sklearn, transformers, XGBoost, PyTorch, Spark, Airflow, MapReduce, Databricks
Databases: Postgres, Dremio, Hive, Vertica, MongoDB, MySQL, MS SQL, Oracle, SQLite

WORK EXPERIENCE

Honeywell International Inc, Atlanta, GA

Sr. Advanced AI Engineer — Feb 2025 – Present
- Implemented **MCP and API toolkit integrations** in agentic workflows to unlock insights from enterprise data
- Empowered business groups in Honeywell with **customized agentic workflows** that integrate seamlessly with their data
- **Mentored** the team in honing their technical and soft skills
- Delivered POCs for Forge Appliance roadmap of employing **AI on the Edge**, which underscores customer data privacy

Advanced Data Scientist — Jan 2022 – Feb 2025
- Contributed to the foundation of an **Agentic AI platform** that enables Honeywell's AI strategy
- Deployed streaming FastAPI servers on **Kubernetes** for agentic workflows that use techniques like **ReAct and CoT**
- Trained **multi-modal transformers** for classifying HVAC sensors with **text and timeseries modalities**
- Implemented a **few-shot learning** feedback loop on a **real-time inference API** for the multi-modal transformer model
- Implemented a **distributed index** to scale a patent search engine, enabling **near real-time** query speeds using PySpark

Data Scientist II — Jan 2021 – Jan 2022
- Employed **anomaly detection** techniques to reduce fraud in procurement through **stakeholder engagements**
- **Minimized costs** and **improved cycle time** compared to current externally licensed product
- Optimized data access tools to **increase productivity** of Forge Insights' platform users

Data Science Intern — Jun 2020 – Aug 2020
- Implemented **NLP techniques** to extract structured elements and clauses from **supplier contracts**
- Researched methods to **link unstructured contracts** with transactional data

Wayfair, Boston, MA — May – Dec 2019
Data Science Co-op – B2B|Sales|Service team
- Trained **Survival Analysis Models** on large-scale time-series data using **recurrent neural networks in Python**
- Developed data pipelines using **Spark** for data from **Hive**; scheduled daily jobs to run them in **AirFlow**
- Engaged in **stakeholder meetings** to leverage their domain knowledge in **feature engineering**

dotin, Fremont, CA (*Remote*) — Mar – Jun 2018
Software Engineer Intern – Machine Learning
- Developed ML training, testing and predictor modules with pipelining using **Python**, **Julia**, and **Java**
- Contributed to maintaining data collection through **Amazon Mechanical Turk**

ACADEMIC PROJECTS & PUBLICATIONS

Deep Question Generation on SQuAD dataset — Apr 2020
Master's Project, Northeastern University, Boston, MA
- Developed a deep neural network that generates questions given a paragraph and an answer within it, using TensorFlow 2
- Employing copy mechanism, the generated questions could get answers with an F1 score only **18% lesser** than original ones
- Contributed a generic CopyNet TensorFlow implementation as an **open-source package** via GitHub

The precision of case difficulty and referral decisions: an innovative automated approach — Aug 2019
Nair Hospital and Dental College, Mumbai, India
- Developed an ML solution with a team of dentists to predict difficulty of an Endodontic case before treatment using TensorFlow and sklearn with a sensitivity score of **94.96%**
- Published in Clinical Oral Investigations, Springer (**Impact Factor - 3.3**)

Vehicular Traffic Abatement — May 2018
Final year Project, University of Mumbai, Mumbai, India
- Developed a solution to vehicular traffic using neural networks in a team of four facilitating users with prediction of vehicular traffic based on time and location, with an accuracy of **90.73%**
- Published the project work as two phases in **IEEE**, Nov. 2018 and in **IJRASET** Volume 6, Jul 2018