Prithvi Hegde

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Education

University of Washington — Seattle, WA
Master of Science in Data Science — *Sep 2026 – Expected Mar 2028*

Birla Institute of Technology and Science, Pilani — Hyderabad, India
Bachelor of Engineering in Computer Science — *Aug 2020 – Jul 2024*

Technical Skills

Languages: Python, SAS, SQL, C++, Java, R, C#
Frameworks/Libraries: Pandas, NumPy, Scikit-learn, PySpark, Matplotlib, LightGBM, NLTK, PyTorch, Hadoop
Developer Tools: Git, Tableau, Power BI, Jupyter, GitHub Copilot, AWS (Bedrock, Lambda, S3), Hive, Hue

Professional Experience

Wells Fargo | *Analyst, Personal Lending Decision Science* — *Jul 2024 – Sep 2026*

- Overhauled the Personal Lending underwriting strategy by using a new LightGBM-based ML-score and simulating decision rules in SAS on 10M+ applications; benchmarked the ML-score against the incumbent model, and measured a 4.9-point KS lift.
- Implemented the new strategy as a 50/50 champion-challenger against incumbent; the new strategy is projected to contribute $250M in incremental FY'26 loan bookings at marginal incremental risk.
- Mined 10,000+ credit bureau attributes using PySpark and Hive, and used sklearn-based random-forest feature selection to identify attributes strongly associated with bad rate while minimizing correlation with the ML score, to create complementary underwriting rules.
- Used SAS to run swap-set analysis, profiled swap-in/swap-out populations, sized incremental bookings, and used reject-inferred data from older vintages to estimate swap-in bad rate.
- Built and automated an end-to-end Tableau portfolio monitoring dashboard used by Risk, Finance, and Business teams for centralized monitoring of portfolio performance and impact of underwriting strategy changes.

Aurigo Software Technologies | *Software Development and Engineering Intern* — *Jan 2024 – Jul 2024*

- Built dashboards using C# and .NET for a large U.S. government client, related to monitoring project health data, status updates and contract status; resolved client-reported bugs related to data integrity, API integration, and stored procedures, in hypercare.

Agrix Agro | *Data Science Intern* — *May 2022 – Jul 2022*

- Processed and visualized 700K+ real-time GPS telemetry records from 6 tractors over two months to identify inefficiencies in land tilling.
- Applied density-based clustering (DBSCAN) using scikit-learn, to distinguish fields from roads, and convex hulls to model field area and shape. This improved tilling efficiency by 15%, through better tractor routing.

Technical/Research Projects

No-Code CHT Workflow | AWS Breaking Barriers 2026 Finalist — Nov 2026

- Developed an AI-powered, no-code medical workflow generation platform to convert unstructured guidelines into deployable Community Health Toolkit (CHT) forms, reducing form generation time from several weeks to approximately 4 minutes.
- Designed a JSON-based logic model to encode clinical pathways, conditions, branches and actions; evaluated 10+ foundation models and implemented a dual-model pipeline using Claude Haiku 5.5 for primary extraction and Llama 4 Scout 17B Instruct for independent verification.
- Engineered an AWS-based, serverless pipeline integrating Amazon Bedrock, AWS Lambda, API Gateway, S3 and DynamoDB to support LLM inference, backend processing and workflow orchestration.

Secure and Efficient Key Management | *Python, Firebase* — Jan 2023 – May 2023

- Worked on this research paper with Prof. Jay Dave, Department of CS-IS, BITS Pilani. The paper was aimed at introducing an efficient key management system for deduplicated data, while not compromising on data security.
- Implemented the algorithm in Python to validate the results of the paper, with a public-private server created using Firebase, and published the paper in the 16th International Conference on Security of Information and Networks conference, 2023. (https://doi.org/10.1109/SIN60469.2023.10475109)